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SESSION 1874-75.



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DONATIONS, 1873-74.

To the Library—Prof. Forbes, LL.D., Aberdeen, Scotland, 2 volumes; Miss Chambers, London, England, 4 vols.; Greenwich Observations, Washington do., with papers on the Transit of Venus; Brazilian Government, pamphlets; Dominion Government, 9 vols.; single volumes, 13.

To the Museum—Hon. R. Hamilton, Hudson Bay Company, game-bag, kettle, baby's moss-bag, a woman's dress, belt, leggings, and work-bag—used by the Hare Indians of Upper Mackenzie River; Professor Mackerras, Rev. G. Bell, LL.D., Walkerton, and G. C. Patterson, Collingwood—Indian relics; R. V. Rogers, Kingston, a variety of insects; Otto Meves, do., a white squirrel, a red do., and a bill fish; G. Bell, Walkerton, 33 coins, &c.; Dr. Dickson, Rockwood Asylum, a Menobranchus.

· ENDOWMENT FUND.

The endowment scheme, begun in January, 1869, has now realized for capital \$94,924.87, including \$7,807.90, loaned to meet recent deficiencies in revenue. Paid subscriptions secure privileges as follows:—

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
GENERAL ANNOUNCEMENTS.

QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The thirty-third session will be opened on the first Wednesday (7th) of October, 1874, at 3 o'clock P.M., when an address will be delivered by Professor Williamson, LL.D.

Kingston is easily accessible on account of its central situation, and is one of the healthiest localities in Western Canada.

 *Students are particularly requested to give attention to the contents of the following pages, as all intimations shall be strictly adhered to.*

 A complete compilation of statutes and by-laws, containing information as to scholastic requirements and defining the duties of students, is published separately. Copies may be obtained on application to the Registrar.

BOARDING.—No student is allowed to board or lodge in any house not approved of by the Senate, except by permission of parents or guardians given in writing. Information as to approved houses may be obtained from the Registrar. The expense of suitable boarding is moderate.

REGISTRATION.—All students are required to have their names with other particulars entered in the University Register.

At the time of registration they must produce a certificate of character from their ministers or other competent persons and the Treasurer's receipt for fees, and must sign a declaration promising due respect and obedience to the University authorities, a careful and diligent attention to their studies, and a courteous and peaceable behaviour towards their fellow-students.

ENTRANCE EXAMINATIONS.—The subjects of these will be found under the head of “Examinations” in connection with each Faculty. Students not intending to graduate are not required to appear at the Matriculation Examinations, but are recommended to do so, in order to satisfy themselves as to their fitness to enter classes with advantage.

MORNING PRAYERS.—All students must attend morning prayers, except when absence is allowed by the Principal or the Senate. The attendance is marked in the University certificates. They must also attend the churches to which they profess to belong, and produce certificates of attendance from their clergymen when required.

THE LIBRARY contains over 9,000 volumes. All registered students are entitled to the use of it, subject to by-laws.

THE OBSERVATORY.—In 1855 subscribers aided by the City Corporation founded an Astronomical Observatory, which was transferred by deed to the University in 1861.

THE MUSEUM.—The Mineralogical and Palæontological collections are extensive and valuable. Occasional demonstrations are given to students. Friendly services towards the furnishing and enlargement of the Museum are solicited.

FEES.—The following fees are payable strictly in advance—class fees on University day (16th October); graduation fees on or before the 27th April.

Class fees—Full course in Arts, per Session	...	...	...	\$20 00
“ One year’s classes not part of full course...	...	...	...	25 00
“ A single class in any department...	...	...	...	5 00
Registration, per session	...	..	...	4 00
Apparatus	...	...	...	2 00
Matriculation Examination	...	..	...	1 00
Pass Examination	..	...	...	2 00
Graduation Fee, Bachelor of Arts (B.A.)	...	...	..	10 00
“ “ Master of Arts (M.A.)	...	...	...	20 00
Bachelor of Divinity (B.D.)	...	...	...	20 00
Admission <i>ad eundem gradum</i> , B.A.	...	...	...	10 00
“ “ “ M.A.	...	...	..	20 00

ACADEMIC YEAR.

		1874.
Oct....	7	Session begins.
	8	Matriculation Examinations in Arts begin.
	12	Examinations for Mowat and Cataraqui Scholarships.
	16	University Day—Registration, &c.
Nov...	6	Matriculation Examinations in Theology begin.
	13	Written Examinations in Arts.
Dec...	22	Written Examinations.
	23	Christmas Holidays begin.
		1875.
Jan...	6	Classes re-open.
	8	Statutory Meeting of Senate.
Feb...	5	Written Examinations.
	13	Time for receiving Theses for M.D. expires.
March	5	Written Examinations.
	12	Time for receiving subjects of Theses for M.A. expires.
	15	Primary and Final Examinations in Medicine begin.
April	1	Notices of intention as to University Examinations required. Written Examinations.
	6	Class-work in Arts closes.
	8	Time for receiving Theses for M.A. expires.
	12	University Examinations in Arts begin.
	13	Class-work in Theology closes.
	20	University Examinations in Theology begin.
	27	Statutory Meeting of Senate.
	29	Convocation for distributing Prizes, announcing Honours, laureating Graduates, and electing Fellows.

FACULTY OF ARTS.

Intrants may complete the following course for graduation in three sessions, by passing satisfactorily the second matriculation examination. Students not intending to graduate may take any of the classes without regard to the prescribed order. In all the classes there are frequent oral examinations, besides a monthly examination conducted in writing.

Matriculation Examinations begin on 8th October.

I. ATTENDANCE.

Hours | Monday. | Tuesday. | Wednesday. | Thursday. | Friday.

FIRST YEAR.

9	Greek.	Greek.	Greek.	Greek.	Greek.
10	Mathematics,	Mathematics.	Mathematics.	Mathematics.	Mathematics.
11	Latin.	Latin.	Latin.	Latin.	Latin.
12	Eng. Language.		Eng. Language.	Eng. Language.	

SECOND YEAR.


9	Mathematics.	Mathematics,	Mathematics.	Logic.	Logic.
10	Classics.	Classics.	Classics.	Classics.	Classics.
11	French.	Eng. Literature.	French.	French.	Eng. Literature.
12	Chemistry.	Chemistry.	Chemistry.	Chemistry.	Chemistry.

THIRD YEAR.

9	Botany.	and	Zoology.	German.	French.
10	Metaphysics.	Metaphysics.	Metaphysics.	Metaphysics.	Metaphysics.
11	Nat. Philosophy.	Nat. Philosophy.	Nat. Philosophy.	Nat. Philosophy	Metaphysics.
12		Classics.		Classics.	Classics.

FOURTH YEAR.

9	German.	German.	German.	Geology.	Geology.
10	History.	History.	History.	History.	History.
11	Ethics.	Ethics.	Ethics.	Ethics.	Nat. Philosophy
12	Nat. Philosophy	Classics.	Nat. Philosophy	Classics.	Classics.

 Undergraduates must take either French or German.

II. DEPARTMENTS AND SUBJECTS OF STUDY.

1—CLASSICS.

First Year.

LATIN.	GREEK.	COLLATERAL SUBJECTS.
Cicero in Catilinam, I. Virgil, <i>Æneid</i> , Book XII. Horace, <i>Odes</i> , Book III.	Homer, <i>Iliad</i> , Book VI. Lucian, <i>Timon</i> . Gospel by John.	Latin Composition. Latin Prosody. Roman Antiquities.
Cicero pro Archia. Horace, <i>Epodes</i> .	Xenophon, <i>Anabasis</i> , Bk. V. Homer, <i>Odyssey</i> , Bk. XII.	} Additional for Honours.

Second Year.

Cicero de Oratore, Bk. II. Virgil, <i>Georgics</i> , Bk. I. Livy, Bk. XXII.	Demosthenes, Philip III. Euripides, <i>Alcestis</i> . Acts of the Apostles.	Latin Composition. Greek Composition, Prosody and Antiquities.
Tacitus, <i>Annals</i> , Bk. I. Horace, <i>Ars Poetica</i> .	Herodotus, Bk. VI. Homer, <i>Odyssey</i> , Bk. XXI.	} Additional for Honours.

Third Year.

Tacitus, <i>Agricola</i> . Juvenal, <i>Satire</i> X.	Sophocles, <i>Antigone</i> . Plato, <i>Apology</i> . Epistle to the Ephesians.	Latin Composition. Greek Composition, Prosody and Antiquities.
Livy, Book XXI. Cicero pro Ligario.	Demosthenes, Philip. II. Pindar, <i>Olympic Odes</i> .	} Additional for Honours.

Fourth Year.

Plautus, <i>Aulularia</i> .	Thucydides, Bk. I. Aristophanes, <i>Knights</i> .	Latin Composition. Greek Composition, Prosody, and Antiquities.
Lucretius, Bk. V.	Demosthenes de Corona. Æschylus, <i>Prometheus</i> .	} Additional for Honours.

2—MATHEMATICS AND NATURAL PHILOSOPHY.

First Year.

Euclid I.—VI. (Simson). Algebra (Wood, pp. 1–174, omitting pp. 136–161.)
Collateral Subjects.—Trigonometry. Logarithms. Exercises.
Additional for Honours—Problems in Geometry. Algebra—Inequalities,
Ratios, Proportion and Variation. (Wood, ed. 1861, pp. 136–161.)
Summer work for second Matriculation Examination—Euclid XI, 1–21,
33; XII, 1, 2, with 1st Lemma (Simson). Algebra—Arithmetical,
Geometrical and Harmonical Progressions, Permutations and Com-
binations. (Wood, ed. 1861, pp. 161–180.)

Second Year—MATHEMATICS.

Plane and Spherical Trigonometry (Snowball). Conic Sections, (Whewell). Analytical Geometry (Hann's in Weale's Series.)

Collateral subjects:—Exercises. Plane and Geodetical Surveying, with the use of Surveying and Astronomical instruments.

Additional for Honours—Mathematics of the First and Second Year.

Summer Work for third Matriculation Examination—Mensuration (Weale's Series, pp. 19–40.) Hann's Analytical Geometry, and Conic Sections, paragraphs 1–12, 25, 26, 30.

A Prize will be awarded for the best solutions of the Problems in Snowball (ed. 1863), p. 149, § XIX. 1–12, inclusive, and p. 158, § XXIV. 1–9, inclusive, given in by the 15th October.

Third Year—NATURAL PHILOSOPHY.

Mechanics (Galbraith and Haughton's). Hydrostatics (do). Draper's Natural Philosophy. Analytical Geometry and Differential Calculus one day in the week (Ritchie, Hall). Collateral subjects:—Problems.

Additional for Honours—Problems in Statics and Dynamics.

Summer work for fourth Matriculation Examination.—Galbraith and Haughton's Hydrostatics, chap. III.

Fourth Year—NATURAL PHILOSOPHY.

Lectures. Optics (Galbraith and Haughton's, Dupuis'). Differential and Integral Calculus one day in the week (Hall). Collateral subjects: Problems in Natural Philosophy. Essays.

Additional for Honours—Elements of the Differential and Integral Calculus; Evan's Newton's Principia, ed. 1855, secs. II and III, pp. 26–52, or the same propositions in Frost's Edition 1863.

3—LOGIC, METAPHYSICS AND ETHICS.

Second Year—LOGIC.

Text-book—Whately's Logic. Lectures.

Additional for Honours—Whewell's "Novum Organum Renovatum;" Mill's Logic, Books III and IV.

Third Year—METAPHYSICS.

The course will comprise

1. A critical account of the main philosophical systems of Greece.
2. Lectures on (a) Psychology, (b) Pure Metaphysics, and (c) the Relation of Philosophy to common consciousness and the Special Sciences.

Additional for Honours—Schwegler's History of Philosophy § 24–35 inclusive. Kant's "Critical Philosophy for English Readers," by Mahaffy.

Fourth Year—ETHICS.

Text-book—Stewart's Outlines of Moral Philosophy, by McCosh. The Lectures embrace

1. A critical account of the leading Ethical systems of modern times.
2. A systematic treatment of (a) the Appetites, Feelings and Desires, (b) Man's Moral and Social Nature, and (c) the relation between Morality and Religion.

Additional for Honours—Kant's "Metaphysics of Ethics," by Semple.

4—CHEMISTRY AND NATURAL HISTORY.

Second Year—CHEMISTRY.

The Lectures treat of the principles of Inorganic and Organic Chemistry, and are illustrated by diagrams and experiments.

Additional for Honours—Physical Chemistry.

Third Year—BOTANY AND ZOOLOGY.

The Lectures on Botany embrace the principles of the science, both structural and physiological, with an outline on the nature and systems of classification; those on Zoology treat of the functions and classification of animals. The subjects are illustrated by specimens and diagrams.

Additional for Honours—A special paper on Botany, and Milne Edward's Manual of Zoology, Part I.

Fourth Year—MINERALOGY AND GEOLOGY.

Lectures on these subjects are illustrated by specimens of minerals, rocks, and fossils, and by diagrams.

Additional for Honours—Ansted's Applications of Geology and Geology of Canada.

Books recommended in the Department—Roscoe's Chemistry; Fownes's do. (Brydges' edition). Gray's Structural Botany; Wood's Botany. Agassiz and Gould's Zoology; Patterson's do. Dana's Mineralogy. Page's or Lyell's Geology. "Natural History of the Inanimate Creation," published by Griffin & Co., 1860.

5—HISTORY, ENGLISH LITERATURE, AND MODERN LANGUAGES.

First Year—ENGLISH LANGUAGE.

Text-book—Shute's Manual of Anglo-Saxon. The lectures treat of the language in respect to its composition, vocabulary, and changes.

Second Year—ENGLISH LITERATURE.

Lectures. Additional for Honours—The Literature of the 17th and 18th centuries in Smith's edition of Shaw's Manual of English Literature.

Fourth Year—HISTORY.

For Matriculation Examination—*Collier's Great Events of History*.

I. ANCIENT HISTORY. Lectures on (1) the migrations of the human family; (2) the origin of the Greeks and Romans respectively, and their influence on civilization.

II. MODERN HISTORY. Lectures on the History of Civilization in Europe.

Subject for Summer Essay—*The British House of Commons*.

Second and Third Years—FRENCH.

JUNIOR.—Text-books—De Fiva's Grammar and Voltaire's Charles XII.

SENIOR.—Text-books—Voltaire's Zaire, Corneille's Cinna.

CLASS PRIZES.

Prizes may be awarded by the Professors for eminence in any kind of class-work.

Merit certificates are also awarded according to the standing attained at the written monthly examinations—*First class* to students who gain a minimum of 85 per cent, and *second class* to those who gain from 70 to 85 per cent of the aggregate number of marks obtainable. Successful candidates take rank as prize men.

III. UNIVERSITY EXAMINATIONS.

These must be passed in order by all candidates for the Degree of Bachelor. They are in writing chiefly, and correspond to the several years of the course, as follows:—

First Matriculation admitting to the rank of Undergraduates.

CLASSICS.—Virgil, *Æneid*, Bk. II; Translation of English into Latin Prose; Greek Grammar; Lucian, Charon.

Candidates may profess equivalent portions of other Classical works, but in so doing cannot compete for rank or Scholarships.

ARITHMETIC.—As far as Extraction of Roots, inclusive.

ALGEBRA.—To end of Simple Equations: GEOMETRY—Euclid, Bks. I. II.

ENGLISH—Bullion's Analytical and Practical Grammar.

Second, third, and fourth Matriculation on subjects of first, second and third years respectively (except French and German in the last), with any additions that may be prescribed in the different Departments.

First, second, and third Pass, on the work of the first, second and third sessions respectively (except French in the second and German in the third.)

Final, for B.A., on the books and subjects prescribed for the fourth year's classes.

HONOURS may be taken in any Department, but only when candidates pass in all Departments.

In all University Examinations 1000 is the maximum of marks allotted to each subject.

DEGREE OF MASTER (M.A.)

This Degree cannot be taken until after two years from the date of graduation as Bachelor. The candidate must compose a satisfactory Thesis on some subject taught in the Faculty or closely bearing on one of the Departments. Intimation of the subject must be given to the Secretary of the Senate on or before 12th March, and the Thesis must be in his hands on or before 8th April, together with a certificate of moral character and of age which must be at least twenty-one years.

Graduates of other Colleges are admitted *ad eundem gradum* (B.A. or M.A.) on producing satisfactory proof of rank and character.

The Degree of Doctor of Laws (LL.D.) is honorary, and is awarded for literary, scientific, or professional distinction.

FACULTY OF THEOLOGY.

Matriculation Examinations begin on Friday, 6th Nov.

The prescribed order of classes must be observed by all students intending to graduate or having in view the ministry of the Presbyterian Church of Canada in connection with the Church of Scotland.

1—DIVINITY.

Hours—9–10 A.M., and 2–3 P.M.

Lectures on Systematic Theology, the Pastoral Office, and Homiletics, with prelections and examinations on Hill's Lectures on Divinity, Butler's Analogy, Paley's Evidences, and Greek Testament for Doctrinal Exegesis. Students have opportunities of conducting devotional exercises, practising pulpit elocution, and performing missionary work.

2—HEBREW, CHALDEE, SYRIAC AND ARABIC.

FIRST YEAR.

10–11 A.M.

Wolfe's Hebrew Grammar.
Genesis I–III.
Deut. XXXIII.
Habbakuk.
Translations into Hebrew.

SECOND YEAR.

4–5 P.M.

Gesenius' Hebrew Grammar.
The Messianic Prophecies.
Translations into Hebrew.

THIRD YEAR.

11–12 A.M.

Gesenius' Hebrew Grammar.
Ps. I–XXX; Jer. VIII–X.
Translations into Hebrew.
Rigg's Chaldee Manual.
Ezra IV; Daniel II–III.
Uhlemann's Syriac Grammar.
Syriac New Testament.
Stewart's Arabic Grammar.
Arabic Old Testament.

3—BIBLICAL CRITICISM.

FIRST AND SECOND YEARS.

Tues., Wed., and Fri., 3–4 P.M.

I and II Epistles to Corinthians, in Greek.
Angus' Bible Handbook.
Lectures.

THIRD YEAR.

Tues., Wed., and Fri., 12–1.

Acts of Apostles in Greek.
Trollope on Acts.
Angus' Bible Handbook.
Lectures.

4—CHURCH HISTORY.

FIRST AND SECOND YEARS.

Mon. and Thurs., 3–4 P.M.

Killen's Ancient Church.
Lectures.

THIRD YEAR.

Mon. and Thurs., 12–1.

Wharey's Church History.
History of the Church of Scotland.
Lectures.

The Church requires the following discourses to be delivered during the course:—Homily and Exegesis; Lecture and Greek Exercise; Sermon and Hebrew Exercise. Two are required each session in order.

SUBJECTS OF MATRICULATION EXAMINATION.

First Year.—Westminster Confession; Hill's Lectures, Bk. I., Chaps. 2, 3, 4; Gospel by Mark in Greek and English.

Second and Third Years.—DIVINITY, CHURCH HISTORY, and BIBLICAL CRITICISM—Portions of text-books used last session.

PASS EXAMINATIONS on the work of each session.

MARKS:—Systematic Theology, 150; Evidences, &c., 150; Hebrew and Chaldee, 150; Biblical Criticism, 100; Church History, 50.

DEGREE OF BACHELOR OF DIVINITY (B.D.)

To obtain this Degree three-fourths of the marks allotted to each of the following subjects must be gained at the Final Examinations:—

1. Prelections of the Third Session.
2. Greek—Acts of the Apostles.
3. Wharey's Church History and History of the Church of Scotland.
4. Angus' Bible Handbook, Ch. IV, Rules of Interpretation.
5. Hebrew—Psalms I-XXV; Chaldee—Daniel II-III.
6. Paley's Evidences.
7. Butler's Analogy.
8. Hill's Lectures (Evidences excepted.)

Alumni of former years or of other Colleges may compete for the Degree. In their case the subjects of Examination are 2, 3, 4, 6, 7, 8 of the above list; Hebrew, Exodus I-XXI, and Psalms I-XLI; Chaldee, Daniel II, III. All candidates must be Bachelors of Arts.

The Degree of Doctor of Divinity (D.D.) is honorary, and is given for literary, scientific, or professional distinction.

SCHOLARSHIPS.

With the exceptions noted below, scholarships are awarded upon the Matriculation Examinations of the years with which they are respectively connected. (See By-laws). The years of the course in which they are tenable are indicated in the last column but one.

FACULTY OF ARTS.

No	NAME.	BY WHOM AND WHEN FOUNDED.	VALUE		
1	MOWAT <i>c</i>	Late John Mowat, Esq., Kingston...1861.	\$50 00	1	bO.
2	CAMPBELL <i>d</i>	Hon. Alex. Campbell, Kingston,...1862.	80 00	1	O.
3	WATKINS <i>e</i>	John Watkins, Esq., Kingston.....1862.	80 00	1	O.
4	LEITCH MEMORIAL (1)...	Subscribers.....1866.	57 00	1	O.
5	ST. PAUL'S CHURCH.....	Congregation of St. Paul's, Montreal 1865.	60 00	1	S.
6	ALLAN.....	Sir Hugh Allan, Montreal.....1857.	50 00	1	S.
7	HARDY MEMORIAL	Mrs. Edw. H. Hardy, Kingston.....1871.	50 00	2	O.
8	SYNOD (1).....	The Church.....1865.	70 00	2	S.
9	ST. ANDREW'S	Students, St. Andrew's, Scotland. ...1862.	50 00	2	S.
10	HENRY GLASS MEMORIAL	Mrs. Glass, Sarnia.....1869.	35 00	2	S.
11	KINGSTON.....	Ladies of Kingston.....1861.	35 00	3	O.
12	SYNOD (2).....	The Church.....1866.	70 00	3	S.
13	ABERDEEN.....	Students, Aberdeen, Scotland.....1856.	50 00	3	S.
14	CATARAQUI <i>f</i>	A Friend, Kingston.....1867.	50 00	3	O.
15	SYNOD (3).....	The Church.....1867.	70 00	4	S.
16	RUSSEL <i>g</i>	James Russel, Esq., Hamilton, Ont..1872.	50 00	4	O.

FACULTY OF THEOLOGY.

1	LEITCH MEMORIAL (2) <i>h</i> ...	Subscribers.....1867.	\$80 00		
2	DOMINION <i>i</i>	A Gentleman in New Brunswick....1870.	50 00	1	
3	COLONIAL COMMITTEE (1)	Church of Scotland.....1855.	50 00	1	
4	COLONIAL COMMITTEE (2)	.....1860.	50 00	2	
5	COLONIAL COMMITTEE (3)	.....1855.	55 00	3	
6	COLONIAL COMMITTEE (4)	.....1855.	50 00	3	
7	COLONIAL COMMITTEE (5)	.....1860.	60 00	3	

a Scholarships in Arts have *Endowment Nominations* connected with them, securing exemption from class fees for *one* session, and thereby virtually adding \$20 to the given value of each.

b *O*-Scholarships open for competition to *all* students of the year. *S*-Scholarships open only to students for the ministry in connection with the Church of Scotland.

c Awarded for the best oral examination in Arithmetic.

d Competition for this scholarship takes place in Newburgh (1874), Bath (1875), and Kingston (1876) Grammar Schools in rotation. The best candidate must acquit himself satisfactorily and produce a certificate of at least one year's attendance at the school.

e Open only to pupils of the Kingston Collegiate Institute. It carries a nomination to a full free course of *four* sessions.

f Awarded for the best written examination on White's Eighteen Christian Centuries, 14-18 inclusive.

g Awarded for the best written examination on the historical portions of the Bible.

h Tenable for three successive years, subject to annual matriculation, except for the third session if spent at a Scottish University. Competitors must have the degree of B.A. The third *triennial* competition will take place in 1875.

i Competitors may belong to any Presbyterian Church in the Dominion.

BURSARIES.

These are awarded to deserving students, being matriculants, when preparing for the ministry in connection with the Church of Scotland. Recipients must sign a written obligation to repay the money should they change their intention with regard to the ministry. Recommendations accompanying contributions for the benefit of particular students, whether matriculants or not, are duly observed. (See By-laws.)

UNIVERSITY PRIZES.

- I. PRINCE OF WALES—Probable value \$60—for the best papers at the Examination for B.A.
- II. MONTREAL—Value \$16—for the best papers at the third Pass Examination.
- III. MONTREAL—Value \$16—for the best papers at the second Pass Examination.
- IV. MONTREAL—Value \$16—For the best papers at the first Pass Examination.

These prizes are given in books.

- V. LEWIS—Value \$25—for the best Lecture on Hebrews IX, verses 6-14 inclusive. Open to students of Theology.
- VI. ALMA MATER SOCIETY—Value \$20—For the best essay on "The Oratory of the Greeks." Open to students of the graduating class in Arts.

The following are also offered, vii being open to all students, and viii, ix and x to all students in Arts.

VII. By the Principal—\$25—for the best poem consisting of at least 50 lines, on the death of Livingstone.

VIII. By the Chairman of the Board of Trustees—\$25—for the best essay on "The Chemical Effects of Light and their application to Photography."

IX. By George A. Kirkpatrick, Esq., M.P.—\$25—for the best essay on Kant's "Critique of Pure Reason."

X. By James Craig, Esq., M.P.P.—\$25—for the best essay on "The Life and Writings of Milton."

CONDITIONS OF COMPETITION.

1. Poems and essays must be given in to the Secretary of the Senate not later than the 15th November.

2. Each production is to bear a motto, instead of the author's name, and to have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that the poem or essay is his own unaided composition.

3. The envelopes attached to successful productions shall be opened and the writers' names made known at the closing Convocation of the session.

4. The best essays or poems must be reported by the Examiners to be of sufficient merit to entitle their authors to the prizes competed for.

5. All successful productions shall be the property of the University and be at the disposal of the Senate.

FACULTY OF MEDICINE.

GRADUATION.

I. Candidates must pass a matriculation examination.

II. They must produce to the Senate, at such time as the Senate may appoint, satisfactory certificates showing—

1. That they are of the full age of twenty-one years.
2. That they are persons of good moral character.
3. That they have been registered, after Matriculation.
4. That they have been engaged in medical studies for a period of four years. (One year's instruction under a qualified medical practitioner prior to attendance upon public lectures is regarded as equivalent to a year at College, and Graduates in Arts may complete their course by three years' attendance upon public lectures.)
5. That their attendance upon public lectures has been at least four-fifths of the teaching time of each session, reckoned with regard to each subject mentioned in clause six of this By-law; provided always that allowance may be made for sickness.
6. That they have attended lectures in the following branches: General and Practical Anatomy, Materia Medica and Pharmacy, Physiology or Institutes of Medicine, and Chemistry, two courses of six months each; and Practical Chemistry, one course of three months; Theory and Practice of Medicine, Principles and Practice of Surgery, Midwifery and Diseases of Women and Children, two courses of six months each; and Medical Jurisprudence, Clinical Medicine, Clinical Surgery, and Botany, one course of three months each; and that during the first year the attendance has been confined to the four subjects first mentioned.
7. That they have compounded medicines, &c., for two periods of six months, or one period of twelve months, in the office of a duly qualified practitioner, and have attended at least six cases of Midwifery.

III. Candidates must pass an examination on all the subjects mentioned in the preceding By-law; but the examination may consist of two parts—a *Primary* and *Final*.

IV. Candidates must compose an approved Thesis on some medical subject.

The Degree of M.D. entitles the holder to the diploma of the Royal College of Surgeons, London, on passing the required examination.

Royal College of Physicians and Surgeons, Kingston.

Incorporated by Act of Parliament and affiliated to the University in 1866.

THE SESSION BEGINS ON THE FIRST WEDNESDAY IN OCTOBER.

TEACHING STAFF.

JOHN R. DICKSON, M.D., M.R.C.P.L., M.R.C.S.E., and F.R.C.S. Edin., President,
Professor of Clinical Surgery.

FIFE FOWLER, M.D., L.R.C.S., Edin., REGISTRAR,
Professor of Materia Medica.

HORATIO YATES, M.D.,
Professor of the Principles and Practice of Medicine, and Lecturer on
Clinical Medicine.

MICHAEL LAVELL, M.D.,
Professor of Obstetrics and Diseases of Women and Children.

MICHAEL SULLIVAN, M.D.,
Professor of Surgery and Surgical Anatomy.

OCTAVIUS YATES, M.D.,
Professor of the Institutes of Medicine and Sanitary Science.

JAMES NEISH, M.D.,
Professor of Botany.

7 (THOMAS R. DUPUIS, M.D.,
Professor of Descriptive and Regional Anatomy.

NATHAN F. DUPUIS, M.A., (Professor of Chemistry and Natural History,
Queen's University),
Professor of Chemistry and Practical Chemistry.

ALFRED S. OLIVER, M.D.,
Professor of Medical Jurisprudence.

HERBERT J. SAUNDERS, M.D., M.R.C.S.E.,
Demonstrator of Anatomy.

Certificates of attendance at this College are recognized by the Royal
Colleges of Surgeons of London and Edinburgh.

The new premises of the College are commodious and convenient.
Unequalled facilities are presented for the study of Practical Anatomy,
and great advantages for clinical instruction are afforded at the General
Hospital and Hotel Dieu.

Full information as to subjects of study, fees, etc., may be obtained on
application to Dr. Fowler, Registrar.

COLLEGIATE INSTITUTE.

RECTOR—SAMUEL WOODS, M.A.

VISITORS—The Arts Professors of Queen's College.

The College Preparatory School and the Kingston County Grammar School, now the City of Kingston Collegiate Institute, were united and affiliated to the University in 1862.

Classical and higher English Master...	SAMUEL WOODS, M.A.
Mathematical Master	THOMAS GORDON.
Assistant Classical and English Master	DUNCAN B. McTAVISH, M.A.
Assistant Mathematical Master ...	WILLIAM H. GODWIN.

FEES PER TERM.....\$4.50.

Winter Term begins 7th January.

Spring Term begins first Wednesday after Easter.

Summer Term begins 16th August.

Autumn Term begins on Monday after 15th October.

The Institute is provided with a full and efficient staff of Masters, gives a thorough education, and prepares for the University. Particular attention is bestowed upon the commercial branches. The Rector has vacancies for a few boarders.

HONOUR AND PRIZE LISTS.*

SESSION 1873-4.

FELLOWS.

ARTS—Donald M. McIntyre, B.A., Kingston.

THEOLOGY—E. D. McLaren, B.D., Merrickville.

LAW—Hon. O. Mowat, LL.D., Toronto.

MEDICINE—Kenneth N. Fenwick, M.D., Kingston.

GRADUATES.

DOCTOR OF MEDICINE—(alphabetical list)—William Claxton, Kenneth Neander Fenwick, Herbert Douglas Ford, Andrew Murray Gibson, John Jones, Solomon Cyrus McLean.

MASTER OF ARTS—(alphabetical list)—Robert John Craig, B.A., Kingston, Kenneth Neander Fenwick, B.A., Kingston, Archibald Patterson Knight, B.A., Hawkesbury Mills, Malcolm Macgillivray, B.A., Collingwood, Andrew McCulloch, B.A., Scotland, Robert S. O'Loughlin, B.A., New York.

BACHELOR OF ARTS—(order of merit)—1, Donald Malcolm McIntyre; 2, James J. Craig; 3, George Gillies; 4, William John Gibson; 5, John Inkerman MacCraken; also Rev. John Gray, Orillia.

PASS MEN.

ORDER OF MERIT.

ARTS—*First Year*—1, John Reeve Lavell; 2, Lewis William Shannon; 3, James Wilson Motherwell, with second class honours in classics; 4, Alexander McKillop; 5, William Henderson Irvine, with second class honours in mathematics; 6, Peter O'Brian; 7, Malcolm Stewart Oxley; 8, Henry Macpherson Dyckman; 9, John Hamilton; 10, Charles McDowell; 11, Henry Lunam; 12, James Cumberland. Also John Strange passed in classics and English language.

Second Year—1, John Ferguson, with first class honours in English literature; 2, James George Stuart; 3, Patrick Anderson Macdonald; 4, John Brown McLaren, with first class honours in English literature; 5, Thomas Wilson, with first class honours in classics; 6, George Claxton; 7, John Mowat Duff; 8, Andrew Nugent; 9, Hugh Cameron.

*For residences of Students see pages 28, 29, 30.

Third Year—1, Thomas Dickie Cumberland ; 2, Robert Walker Shannon ; 3, George Richard Webster, with first class honours in metaphysics ; 4, John Herald, with first class honours in French, and second class honours in botany and zoology, and in metaphysics ; 5, Charles McKillop ; 6, John Ball Dow ; 7, Alexander Hugh Scott ; 8, John Mordy ; 9, Henry Amey Asselstine ; 10, Thomas Stuart Glassford ; 11, John Pringle ; 12, James McArthur. Also William Mundell passed in classics, metaphysics, French, botany, and zoology.

Fourth Year—1, Donald Malcolm McIntyre, with first class honours in classics, ethics, history, mineralogy and geology ; 2, James J. Craig, with first class honours in history, mineralogy, and geology ; 3, George Gillies ; 4, William John Gibson with first class honours in mineralogy and geology, and second class honours in history ; 5, John Inkerman MacCraken.

MEDICINE—*Primary Examination*—(alphabetical list)—Alfred Hyla Betts, Allen B. Carscallen, Adalbert Britton Deynard, William E. Dingman, David Henry Dowsley, George C. Dowsley, Herbert Douglas Ford, Joseph W. Lane, Thomas Masson, Leslie Tuttle.

Final Examination—The six medical graduates named above.

THEOLOGY—*First Year*—William Arthur Lang, B.A.

Second Year—1, John Lowrie Stuart, B.A.; 2, Malcolm Macgillivray, B.A. ; 3, James Cormack, B.A.

SCHOLARSHIPS.

ARTS.

FIRST YEAR.

1. *Watkins*—*John Reeve Lavell.
2. *Campbell*—Lewis W. Shannon.
3. *Leitch Memorial (1)*—William H. Irvine.
4. *St. Paul's, Montreal*—Alexander McKillop.
5. *Allan*—James Cumberland.
6. *Mowat*—David P. Clapp.

SECOND YEAR.

1. *Synod (1)* James George Stuart.
2. *Hardy Memorial*—John Ferguson.
3. *Aberdeen*—Hugh Cameron.

THIRD YEAR.

1. *Synod (2)*—Thomas D. Cumberland.
2. *St. Andrew's*—Charles McKillop.
3. *Kingston*—Archibald McMurchy.
4. *Cataraqui*—†Robert W. Shannon.

FOURTH YEAR.

- Synod (3)*—James J. Craig.
Russel—Donald M. McIntyre.

*With the honour of gaining the Mowat Scholarship.
 †With the honour of gaining the Kingston Scholarship.

THEOLOGY.

FIRST YEAR.

Dominion—William A. Lang, B.A.

SECOND YEAR.

Leitch Memorial (2)—Malcolm Macgillivray, B.A., } equal.
John L. Stuart, B.A., }

Colonial Committee (2)—James Cormack, B.A.

THIRD YEAR.

Colonial Committee (5)—Robert John Craig, B.A.

Colonial Committee (3)—Alexander H. Cameron.

Colonial Committee (4)—John J. Cameron, M.A.

UNIVERSITY PRIZES.

ARTS.

Montreal—For the best pass papers, *first year*, John Reeve Lavell.

Montreal—For the best pass papers, *second year*, John Ferguson.

Montreal—For the best pass papers, *third year*, Thomas Dickie Cumberland.

Prince of Wales—For the best pass papers at the examination for B.A.,
Donald Malcolm McIntyre.

Session 1868-9—Robert Crawford, Kingston.

“ 1869-70—Thomas H. McGuire, Kingston.

“ 1870-71—Hugh Urquhart Bain, Perth.

“ 1871-72—Archibald P. Knight, Renfrew.


“ 1872-73—William Arthur Lang, Almonte.

THEOLOGY.

Lewis—For a lecture on John XV, 1-8, Robert John Craig, B.A.

CLASS PRIZES.

(See page 14.)

 Students whose names have an asterisk prefixed received prizes in books besides certificates of merit. The numbers following names express the percentage of the aggregate marks obtained at the monthly written examinations during the session.

CLASSICS—*First Year*—1, *John Reeve Lavell (77); 2, *Lewis William Shannon (71); 3, James Wilson Motherwell (70). *Second Year*—1, *James George Stuart (77) and *Thomas Wilson (77), equal; 2, Patrick Anderson Macdonald (74); 3, John Brown McLaren (72). *Third Year*—1, *Thomas Dickie Cumberland (82); 2, John Ball Dow (81); 3, Robert Walker Shannon (78); 4, John Herald (77); 5, William Mundell (72); 6, John Pringle (71); 7, George Richard Webster (70). *Fourth Year*—1, *Donald Malcolm McIntyre (91); 2, George Gillies (71); 3, James J. Craig (70).

MATHEMATICS—*First Year*—1, *John Reeve Lavell (89); 2, *William Henderson Irvine (80). *Second Year*—1, *John Ferguson (93); 2, *James George Stuart (81).

- NATURAL PHILOSOPHY**—*Junior*—*Thomas Dickie Cumberland (81).
Senior—*Donald Malcolm McIntyre (85).
- HISTORY**—1, *Donald Malcolm McIntyre (95); 2, James J. Craig (90);
 3, George Gillies (85); 4, William John Gibson (80).
- ENGLISH LITERATURE**—1, *John Ferguson (95); 2, Patrick Anderson
 Macdonald (93), 3, John Brown McLaren (93); 4, James George
 Stuart (83); 5, John Mowat Duff (79); 6, George Claxton.
- ENGLISH LANGUAGE**—1, *John Reeve Lavell (90); 2, Lewis William
 Shannon (84); 3, William Henderson Irvine (78).
- FRENCH**—*Senior*—1, *William Mundell (96); 2, Robert Walker Shannon (90);
 3, Thomas Dickie Cumberland (85); 4, Henry Amey Asselstine (80);
 5, John Herald (77); 6, Alexander Hugh Scott (77). *Junior*—
 1, *Patrick Anderson Macdonald (98); 2, James George Stuart (85);
 3, John Mowat Duff (82).
- LOGIC**—*John Ferguson (89).
- METAPHYSICS**—1, *George Richard Webster (71); 2, *Robert Walker
 Shannon; 3, Charles McKillop. For the best essays during the
 session—Charles McKillop.
- ETHICS**—*Donald Malcolm McIntyre. For the best essays—Donald
 Malcolm McIntyre.
- CHEMISTRY**—1, *John Ferguson (82); 2, Patrick Anderson Macdonald (80);
 3, John Brown McLaren (74); 4, James George Stuart (71).
- BOTANY AND ZOOLOGY**—1, *Thomas Dickie Cumberland (93); 2, Robert
 Walker Shannon (89); 3, George Richard Webster (86); 4, John
 Herald (84); 5, William Mundell (84); 6, Charles McKillop (80);
 7, John Ball Dow (80); 8, John Pringle (74); 9, John Mordy (72);
 10, (Henry Amey Asselstine (70).
- MINERALOGY AND GEOLOGY**—1, *Donald Malcolm McIntyre (95);
 2, William John Gibson (90); 3, James J. Craig (86); 4, George
 Gillies (80).
- HEBREW**—*First Year*—William Arthur Lang, B.A. (72). *Third Year*—
 1, Robert John Craig, B.A. (71); 2, John Josiah Cameron, M.A. (70).
- BIBLICAL CRITICISM AND CHURCH HISTORY**—*Second Year*—John Lowrie
 Stuart, B.A. (80). *Third Year*—Robert John Craig, B.A. (70).
- DIVINITY**—1, *Robert John Craig, B.A. (82); 2, *John Lowrie Stuart, B.A.
 (81); 3, John Josiah Cameron, M.A. (76).

Of the above-mentioned Prizemen in Arts, Messrs. Asselstine, Claxton, Duff, Gibson, Glassford, Irvine, Lavell, Macdonald, McIntyre, Mundell, L. W. Shannon, R. W. Shannon, Webster, were educated at the Kingston Collegiate Institute; Craig and Scott at Williamstown High School; Motherwell at Perth High School; Wilson at Wardsville High School; Stuart at Brantford High School; Ferguson at Albert University; Herald at Dundas High School; Pringle at Prince of Wales College, Charlotte-town, P.E.I.; Cumberland at Weston High School; McKillop and Mordy privately. Dow at Whitby High School; Gillies at Carleton Place High School.

LIST OF STUDENTS IN SESSION 1873-4.

FACULTY OF ARTS.

Name.	Year in curriculum.		Summer Residence.
Asselstine, Henry Amey ...	3	...	Kingston.
Cameron, Hugh ...	2	...	Dewittville, Que.
Clapp, David Philip ...	1	...	Demorestville.
Claxton, George ...	2	...	Inverary.
Craig, James J. ...	4	...	Cornwall.
Cumberland, James ...	1	...	Proton.
Cumberland, Thomas Dickie...	3	...	Rosemont.
Dow, John Ball ...	3	...	Whitby.
Drummond, Frank Arthur ...	...	...	Ottawa.
Duff, John ...	2	...	Kingston.
Dyckman, Henry Macpherson	1	...	Kingston.
Ferguson, John... ..	2	...	Lansdowne.
Gibson, William John... ..	4	...	Township of Kingston.
Gillies, George ...	4	...	Carleton Place.
Glassford, Thomas Stuart ...	3	...	Beaverton.
Hamilton, John ...	1	...	Kingston.
Hamel, Felix Shaw ...	...	...	Tatlock.
Herald, John ...	3	...	Dundas.
Irvine, William Henderson ...	1	...	Elginburgh.
Lavell, John Reeve ...	1	...	Kingston.
Lunam, Henry ...	1	...	Litchfield.
MacCraken, John Inkerman ...	4	...	Ottawa.
Macdonald, Patrick Anderson	2	...	Kingston.
Macgillivray, Alexander ...	...	...	Balsover.
McArthur, James ...	3	...	East Williams.
McDowell, Charles ...	1	...	Deerhurst.
McEachern, Charles ...	...	...	Saugen.
McIntyre, Donald Malcolm ...	4	...	Kingston.
McKillop, Alexander ...	1	...	Beachburg.
McKillop, Charles ..	3	..	St. Louis de Gonzague, Q.
McLaren, John Brown ..	2	..	Kingston.
McMurphy, Archibald ..	3	..	Fort Coulogne, Q.
McTavish, Alexander ..	..	..	Drummond.
Mordy, John ..	3	..	Collingwood.
Motherwell, James Wilson ..	1	..	Perth.
Mundell, William ..	3	..	Kingston.
Nugent Andrew ..	2	..	Newburgh.
O'Brian, Peter ..	1	..	L'Original.
Oxley, Malcolm Stewart ..	1	..	Summerstown, O.

Name.	Year in curriculum.		Summer Residence.
Patterson, Gilbert Currie ..	..	..	Collingwood.
Pringle, John	3	..	Windsor Mills, Q.
Pringle, Robert Abercrombie..	..	..	Cornwall.
Scott, Alexander Hugh ..	3	..	Martintown.
Shannon, Lewis William ..	1	..	Kingston.
Shannon, Robert Walker ..	3	..	Kingston.
Strange, John	1	..	Kingston.
Stuart, James George ..	2	..	Toronto.
Taylor, Hugh .. ..	..	..	Rawdon.
White, Joseph Francis ..	..	..	Whitby.
Webster, George Richard ..	3	..	Lansdowne.
Wilson, Thomas	2	..	Str. Norseman, Port Hope

FACULTY OF THEOLOGY.

Name.	Year in curriculum.		Summer Residence.
Cameron, Alexander Henry ..	3	..	Nova Scotia.
Cameron, John Josiah, M.A.	3	..	Prince Edward Island.
Cormack, James, B.A. ..	2	..	Kingston.
Craig, Robert John, B.A. ..	3	..	Kingston.
Lang, William Arthur, B.A. ..	1	..	Assametquagan, N.B.
Macgillivray, Malcolm, B.A.	2	..	New Lowell.
McEachern, Duncan .. ..	..	..	Glencoe.
Ross, Archibald .. ..	..	..	Wolfe Island.
Stuart, John Lowrie, B.A. ..	2	..	Indian Lands.

UNDERGRADUATES IN MEDICINE.

Name.	Year in curriculum.		Summer Residence.
Betts, Alfred Hyla ..	2	..	Kingston.
Bowen, George Henry ..	1	..	Kingston.
Carscallen, Allen B ..	3	..	Petworth.
Case, George Hutchins ..	1	..	London.
Claxton, William	4	..	Inverary.
Cryan, John	1	..	Morrisburgh.
David, Egerton Clapp ..	1	..	Bongard's Corners.
Davis, Ransom A.	1	..	Smith's Falls.
Deynard, Adalbert Britton ..	2	..	Picton.
Dingman, William E. ..	3	..	Milford.
Dowsley, David Henry ..	3	..	Frankville.
Dowsley, George C. ..	3	..	Frankville.
Dumble, Thomas H. ..	1	..	Kingston.
Fenwick, Kenneth Neander, B.A.	4	..	Kingston.
Ford, Herbert Douglas ..	4	..	Kingston.
Gerow, Arthur Martin ..	4	..	Stirling.
Gibson, Andrew Murray ..	4	..	Newburgh.
Gunn, William Alexander ..	3	..	Kingston.
Higgins, Edward Michael ..	1	..	Ottawa,

Name.	Year in curriculum.			Summer Residence.
Holmes, Frederick Scovil ..	1	..		Farmersville.
Hooper, Henry M. ..	1	..		Enniskillen.
Howrigan, Andrew ..	1	..		Peterboro'.
Jackson, Nelson M. ..	1	..		Kingston.
Jones, John ..	4	..		Kingston.
Kennedy, Alexander ..	3	..		Bath.
Lane, Joseph W. ..		..		N. Williamsburgh.
Loscombe, Frederick..	1	..		Bowmanville.
Masson, Thomas ..	3	..		Menie.
McLean, Solomon Cyrus ..	4	..		Morrisburgh.
Millar, Lindsay Flagg ..	1	..		Klنگston.
Morton, John A. ..	1	..		Kingston.
Murphy, John Bernard ..	1	...		Norwood.
Potter, Samuel ..	1	..		Manotick.
Potter, Thomas ..	1	..		North Gower.
Preston, Richard F. ..	3	..		Newboro'.
Scovill, Simmons S. S. ..	1	..		Portland.
Tuttle, Leslie ..	1	..		Centreville.
Wilson, Houghton W. A. ..	1	..		Kingston.

LIST OF GRADUATES.

Graduates are requested to intimate to the Registrar change of residence or any omissions in the list.

Name.	Degree.	Year of Graduation.	Present Residence.
Abbott, Samuel A. ...	M.D. ...	1868. ...	Embro.
Agnew, Andrew ...	B.A. ...	1864. ...	Renfrew.
Agnew, John... ...	B.A. ...	1859. ...	Kingston.
" " ...	M.D. ...	1865. ...	
" " ...	M.A. ...	1872. ...	
Alexander, James A. ...	M.D. ...	1869. ...	St. Catharines.
Alway, Enoch ...	M.D. ...	1869. ...	Smithville.
Anderson, W. J. ...	M.D. ...	1861. ...	Smith's Falls.
Armstrong, Alfred ...	M.D. ...	1866. ...	(Deceased.)
Armstrong, Albert ...	M.D. ...	1867. ...	Arnprior.
Aylsworth, Arch. K. ...	M.D. ...	1863. ...	Newburgh.
Bain, William ...	B.A. ...	1845. ...	Perth, O.
" " ...	M.A. ...	1847. ...	
" " ...	D.D. ...	1872. ...	
Bain, John F... ...	B.A. ...	1867. ...	Winnipeg, M.
Bain, Hugh U. ...	B.A. ...	1871. ...	Perth.
Bayne, James ...	D.D. ...	1865. ...	Pictou, N.S.
Beattie, William ...	M.D. ...	1870. ...	Kilbride.
Beckett, James ...	M.D. ...	1863. ...	Jamaica.
Bell, Alexander ...	M.D. ...	1865. ...	Lakefield.
Bell, Andrew... ...	B.A. ...	1853. ...	St. Andrew's, Q.
Bell, George ...	B.A. ...	1847. ...	Walkerton, O.
" " ...	LL.D. ...	1872. ...	
Bell, James M. ...	M.D. ...	1857. ...	(Deceased.)
Bell, John ...	B.A. ...	1862. ...	Montreal.
" " ...	M.A. ...	1865. ...	
" " ...	M.D. ...	1866. ...	
Bell, Josiah J. ...	B.A. ...	1864. ...	Goderich.
Bell, William... ...	B.A. ...	1855. ...	Sanquhar, Scotland.
Benson, John R. ...	B.A. ...	1853. ...	Australia.
" " ...	M.D. ...	1858. ...	
Bergne, Samuel B... ..	D.D. ..	1865. ...	London, England.
Bernard Gerald ...	M.D. ...	1871. ...	Newcastle-on-Tyne.
Bethune, Alexander ...	M.D. ...	1858. ...	Glanford.
Bethune, Henry F. ...	M.D. ...	1869. ...	Mt. Hope.
Bethune, William... ..	B.A. ...	1864. ...	Toronto.

Name.	Degree.	Year of Graduation.	Present Residence.
Bice, Mark	M.D. ...	1869. ...	Hampton.
Bigham, Hugh	M.D. ...	1864. ...	Fenelon Falls.
Bigham, James	M.D. ...	1868. ...	Warsaw.
Bigham John	M.D. ...	1865. ...	Cataraqui.
Bird, Francis W.	M.D. ...	1859. ...	U. S.
Bird, Nelson J.	M.D. ...	1860. ...	San Francisco, Cal.
Black, William A... ..	M.D. ...	1862. ...	Omanee.
Blakely, Robert	M.D. ...	1861. ...	(Deceased.)
Bleasdell, Charles E. ...	M.D. ...	1868. ..	(Deceased.)
Bonner, John	B.A. ...	1845. }	New York.
“ “	M.A. ...	1847. }	
Booth, Donald B... ..	M.D. ...	1868. ...	Odessa.
Bourchier, H. P.	B.A. ...	1853. ...	Valparaiso, S.A.
Bowen, Robert	M.D. ...	1865. ..	H. M. Service.
Bowers, Samuel S... ..	M.D. ...	1857. ...	Fond du Lac, Wis.
Boyd, Edward	LL.B. ...	1863. ...	Cincinnati, U.S.
Boyle, Arthur R.	M.D. ...	1859. ...	Petrolia.
Branigan, P. K.	M.D. ...	1862. ...	(Deceased.)
Bray, John L.	M.D. ...	1863. ...	Chatham, O.
Bridgland, Samuel	M.D. ...	1870. ...	Bracebridge.
Brien, James... ..	M.D. ...	1872. ...	
Brown, Marshall J.	M.D. ...	1856. ..	Kingston.
Buckley, Philip J... ..	LL.B. ...	1863. ...	(Deceased.)
Burgess, James E... ..	B.A. ...	1868. ...	Kincardine, O.
Caie, George J.	B.A. ...	1861. ...	St. John, N.B.
Caldwell, William	B.A. ...	1866. ...	Lanark, O.
Cameron, Charles I. ..	B.A. ...	1861. }	Daylesford, V., Australia
“ “	M.A. ...	1868. }	
Cameron, James Y.	M.A. ...	1867. ...	Drummondville, O.
Cameron, John	B.A. ...	1864. ...	London, O.
Campbell, Alexander ...	B.A. ...	1862. ...	Beachburg.
Campbell, Donald... ..	B.A. ...	1850. ...	(Deceased.)
Campbell, George	M.D. ...	1859. ...	H. M. Navy.
Campbell, John	B.A. ...	1847. }	(Deceased.)
“ “	M.A. ...	1850. }	
Campbell, John H	M.D. ..	1856. ...	(Deceased.)
Campbell, Joseph	M.D. ...	1867. ...	Bristol, Q.
Campbell, Robert... ..	B.A. ...	1856. }	Montreal.
“ “	M.A. ...	1858. }	
Campbell, Robert... ..	B.A. ...	1867. }	Renfrew.
“ “	M.A. ...	1870. }	
Cattanach, John C.	B.A. ...	1868. ...	Cornwall.
Chaffey, Ellswood... ..	M.D. ..	1871. ...	Toronto.
Chamberlane, Theodore F.	M.D. ...	1862. ...	Morrisburgh.
Chambers, Daniel... ..	M.D. ...	1855. ...	(Deceased.)
Chambers, Robert	B.A. ...	1866. ...	Nairn, O.
Chanonhouse, John	M.D. ...	1863. ...	Eganville.
Chanonhouse, Thomas... ..	M.D. ...	1860. ...	(Deceased.)
Chapman, Edward J. ...	LL.D. ...	1867. ...	Toronto.
Chisholm, Harvey F. ...	M.D. ...	1857. ...	(Deceased.)
Chrysler, Francis H. ...	B.A. ...	1866. ...	Ottawa.

Name.	Degree.	Year of Graduation.	Present Residence.
Clark, James	M.D.	1868.	Portsmouth, Mich.
Clarke, John... ..	M.D.	1872.	Iroquois.
Clarke, William C. ...	B.A.	1855.	Winnepeg, M.
Claxton, William... ..	M.D.	1874.	Verona.
Cluness, William R. ...	B.A.	1855.	Sacramento, California
" "	M.D.	1859.	
Cogan, Jeremiah R. ...	M.D.	1861.	Lindsay.
Coleman, William F. ...	M.D.	1863.	Toronto.
Comer, Alexander T. C...	M.D.	1864.	Titusville, U.S.
Corbett, George H. ...	M.D.	1856.	Orillia.
Corbett, Henry T. ...	M.D.	1868.	Ottawa.
Cormack, James	B.A.	1872.	Kingston.
Corry, Robert	M.D.	1861.	
Craig, James J.	B.A.	1874.	Cornwall.
Craig, William	B.A.	1858.	New York.
Craig, Robert John ...	B.A.	1871.	Kingston.
" "	M.A.	1874.	
Cranstoun, James G. ...	M.D.	1860.	Arnprior.
Crawford, Joseph... ..	M.D.	1856.	Durham, O.
Crawford, Robert	B.A.	1869.	Kingston.
Curran, William B. ...	B.A.	1859.	Galt.
" "	M.A.	1870.	
Currie, Archibald... ..	B.A.	1858.	Wick, O.
" "	M.A.	1861.	
Darragh, Robert J. ...	M.D.	1870.	Columbus, O.
David, Alfred	M.D.	1873.	Port Lambton.
Davis, Robert H.	M.D.	1858.	York, Grand River.
Davison, Myers	M.D.	1864.	Florence.
Dawson, Alexander ...	B.A.	1859.	Ashburn.
Day, Barnabas W.	M.D.	1862.	Chicago.
Day, H. W.	M.D.	1859.	Trenton.
Day, Walter D. P. W....	M.D.	1871.	Harrowsmith.
Deans, George	M.D.	1865.	Trent.
Deans, William C... ..	M.D.	1861.	Galt.
Dickson, John R.... ..	M.D.	1863.	Kingston.
Dickson, John R.... ..	M.D.	1868.	(Deceased.)
Dingwall, James	B.A.	1861.	Cornwall.
Donald, William	D.D.	1861.	(Deceased.)
Donald, William	B.A.	1873.	Renfrew.
Douglas, James	B.A.	1858.	Quebec.
Douglas, Robert	B.A.	1851.	Port Elgin.
" "	M.D.	1855.	
Drummond, Andrew T. ...	B.A.	1860.	Montreal.
" "	LL.B.	1863.	
Dugdale, John J.... ..	M.D.	1867.	Montreal.
Dumble, William C. ...	M.D.	1870.	Qwen Sound.
Dumoulin, John P. ...	M.A.	1870.	Hamilton.
Dunbar, Neil... ..	B.A.	1854.	(Deceased.)
Dunbar, Samuel	M.D.	1855.	Mount Forest.
Dunlop, Neil... ..	M.D.	1861.	Sydenham, O.
Dunn, Andrew T.... ..	M.D.	1864.	North Augusta.

Name.	Degree.	Year of Graduation.	Present Residence.
Dupuis, Nathan F. ...	B.A. ...	1866. }	Kingston.
" " ...	M.A. ...	1868. }	
Dupuis, Thomas R. ...	M.D. ...	1860. ...	Kingston.
Eakin, Samuel ...	B.A. ...	1866. ...	Parkhill.
Edmison, Henry ...	B.A. ...	1863. }	Melbourne, Q.
" " ...	M.A. ...	1866. }	
Elmer, William W. ...	M.D. ...	1858. ...	Madoc.
Elwell, W. D. ...	M.D. ...	1863. ...	(Deceased.)
Erly, Francis W. J. ...	M.D. ...	1868. ...	
Evans, Henry ...	M.D. ...	1858. ...	(Deceased.)
Evans, Joseph ...	B.A. ...	1855. }	Shoe Heel, N. Carolina.
" " ...	M.A. ...	1857. }	
Fairbairn, Archibald C. ...	M.D. ...	1871. ...	Cape Vincent.
Farrell, J. T. ...	M.D. ...	1861. ...	(Deceased.)
Fee, Samuel H. ...	M.D. ...	1862. ...	Kingston.
Fenwick, Kenneth N. ...	B.A. ...	1871. }	Kingston.
" " ...	M.A. ...	1874. }	
" " ...	M.D. ...	1874. }	
Fenwick, Thomas M. ...	M.D. ...	1864. ...	Kingston.
Ferguson, Charles F. ...	M.D. ...	1859. ...	Kemptville.
Ferguson, Edward G. ...	M.D. ...	1863. ...	Brunswick, Georgia.
Ferguson, George D. ...	B.A. ...	1851. ...	Kingston.
Ferguson, James F. ...	B.A. ...	1862. ...	Napanee.
Ferguson, Robert B. ...	M.D. ...	1863. ...	Pembroke.
Ferguson, Thomas ...	B.A. ...	1863. ...	Kingston.
Ferguson, William B. ...	B.A. ...	1861. ...	Napanee.
File, Albert J. ...	M.D. ...	1869. ...	Ameliasburgh.
Ford, Herbert Douglass ...	M.D. ...	1874. ...	Montreal.
Foster, Robert J. ...	M.D. ...	1859. ...	
Fowler, Fife ...	M.D. ...	1863. ...	Kingston.
Fox, Edward C. ...	M.D. ...	1864. ...	
Fralick, Edison B. ...	B.A. ...	1863. ...	Belleville.
Franklin, Benjamin W. ...	M.D. ...	1856. ...	Port Burwell.
Fraser, Alex. G. ...	B.A. ...	1852. ...	(Deceased.)
Fraser, Anson S. ...	M.D. ...	1869. ...	Sarnia.
Fraser, Archibald ...	B.A. ...	1848. ...	Williamstown.
Fraser, Donald ...	B.A. ...	1864. ...	Priceville.
Fraser, George L. B. ...	B.A. ...	1870. ...	Toronto.
Fraser, James ...	B.A. ...	1865. ...	Litchfield.
Fraser, John F. ...	B.A. ...	1869. ...	
Fraser, John M. ...	B.A. ...	1855. }	London.
" " ...	M.D. ...	1861. }	
Fraser, Joshua ...	B.A. ...	1858. ...	Whitby.
Geddie, John ...	D.D. ...	1866. ...	(Deceased.)
Geikie, John C. ...	D.D. ...	1871. ...	London, England.
Gerin, John ...	M.D. ...	1872. ...	Auburn, U.S.
Gibson, Andrew M. ...	M.D. ...	1874. ...	Newburgh.
Gibson, William John ...	B.A. ...	1874. ...	Township of Kingston.
Gildersleeve, James ...	LL.B. ...	1863. ...	Kingston.
Giles, John G. ...	M.D. ...	1860. ...	Farmersville.
Gill, Henry ...	D.D. ...	1865. ...	England.

Name.	Degree.	Year of Graduation.	Present Residence.
Gillies, George	B.A. ...	1874. ..	Carleton Place.
Gillies, Niel	M.D. ...	1871. ...	Zilwawkie.
Gleeson, James H.	M.D. ...	1864. ...	Syracuse, N. Y.
Gordon, James	B.A. ...	1851. } ...	Crumlin, O.
" "	M.A. ...	1854. }	
Gordon, John	B.A. ...	1861. ...	Paisley, O.
Grant, Peter	D.D. ...	1868. ...	Dundee, Scotland.
Grasse, Sidney D.	M.D. ...	1864. ...	(Deceased.)
Gray, John	B.A. ...	1874. ...	Orillia.
Gunsolus, Kenneth	M.D. ...	1871. ...	
Hacket, Joseph	M.D. ...	1858. ...	
Hamilton, David	M.D. ...	1862. ...	Bruce Mines.
Harkness, Thomas F.	B.A. ...	1861. ...	India.
Harrison, Thomas T. S.	M.D. ...	1865. ...	
Hart, Thomas	B.A. ...	1860. }	Winnepeg, M.
" "	M.A. ...	1868. }	
Harvey, Albert E.	M.D. ...	1869. ...	
Heenan, Daniel	B.A. ...	1849. ...	(Deceased.)
Heggie, David	M.D. ...	1865. ...	
Henderson, Donald	M.D. ...	1858. ...	
Henderson, William	D.D. ...	1862. ...	(Deceased.)
Henderson, William	M.D. ...	1859. ...	(Deceased.)
Hendry, George	M.D. ...	1869. ...	Zilwawkie.
Herriman, William C.	M.D. ...	1855. ...	Orono.
Higinbotham, William	M.D. ...	1871. ...	Fenelon Falls.
Hillier, William	M.D. ...	1855. ...	(Deceased.)
Hillier, Solomon C.	M.D. ...	1869. ...	Enniskillen.
Hoare, Walter W.	M.D. ...	1864. ...	Adelaide.
Hodge, George	M.D. ...	1870. ..	Lakefield.
Hogg, John	D.D. ...	1871. ...	Guelph.
Hooper, Edmund J.	B.A. ...	1858. }	Napanee.
" "	M.A. ...	1861. }	
Hope, James A.	B.A. ...	1862. }	San Francisco, Cal.
" "	M.A. ...	1865. }	
Horsey, Alfred	M.D. ...	1865. ...	Ottawa.
Horsey, Edward H.	M.D. ...	1860. ...	Chicago.
Houston, William R.	M.D. ...	1871. ...	Chatham, O.
Howell, George W.	M.D. ...	1867. ...	Tweed, O.
Howells, Thomas B.	M.D. ...	1863. ...	Caledonia.
Hunter, Alexander	B.A. ...	1861. ...	(Deceased.)
Ingersoll, Isaac F.	M.D. ...	1863. ...	Picton.
Ireland, Charles F.	B.A. ...	1866. ...	Windsor.
Irwin, Chamberlen A.	M.D. ...	1863. ...	Wolfe Island.
Jameson, Alexander	B.A. ...	1863. ...	Williamstown.
Jardine, Robert, Sc. D.	B.A. ...	1863. }	Calcutta, India.
" "	B.D. ...	1866. }	
Johnson, Absalom H. J.	M.D. ...	1862. ...	Portsmouth.
Johnson, William	B.A. ...	1850. }	Hamilton.
" "	M.A. ...	1852. }	
Johnstone, David	M.D. ...	1868. ...	Kincardine.
Jones, Henry M.	M.D. ...	1866. ...	Marmora.

Name.	Degree.	Year of Graduation.	Present Residence.
Jones, John	M.D.	1874.	Kingston.
Joy, Sylvanus	M.D.	1857.	Woodstock.
Kahkewaquonaby, ..	M.D.	1866.	Hagersville, O.
Kay, William	M.A.	1855.	Goderich.
Kellock, John D. ..	M.D.	1862.	Perth.
Kelly, David	M.D.	1861.	U. S.
Kelly, Edward J. ...	M.D.	1861.	Almonte.
Kemp, Alexander F. ..	LL.D.	1871.	Galesburg, U.S.
Kemp, James A.	M.D.	1861.	Leamington.
Kennedy, Jacob B. ..	M.D.	1873.	Welland.
Kennedy, Roderick ..	M.D.	1863.	Bath.
Kertland, Edwin H. ..	M.D.	1865.	Toronto.
Kidd, Edward	M.D.	1871.	Monatick.
Kincaid, Robert	M.D.	1863.	Peterboro'.
Knight, Archibald P. ..	B.A.	1872.	Hawkesbury.
"	M.A.	1874.	
Lafferty, James	M.D.	1871.	Pembroke.
Laidlaw, Alexander R. ..	M.D.	1857.	(Deceased.)
Lake, Charles B.	M.D.	1866.	Ridgetown.
Lambert, Robert	M.D.	1859.	Windsor.
Lang, William A. ...	B.A.	1873.	Almonte.
Lavell, Charles H. ...	M.D.	1873.	Kingston.
Lavell, Michael	M.D.	1863.	Kingston.
Lawlor, Michael	M.D.	1857.	Toronto.
Leavit, Arvin S.	M.D.	1869.	Westport.
Lennox, David	B.A.	1861.	
Lindsay, John	B.A.	1852.	(Deceased.)
"	M.A.	1854.	
Lindsay, Peter	B.A.	1851.	Sherbrooke, Q.
Litchfield, John P. ..	M.D.	1863.	(Deceased.)
Livingston, John	B.A.	1857.	(Deceased.)
Livingston, Peter S. ..	B.A.	1870.	Pittsburgh, O.
Lochead, John S.	B.A.	1871.	Kelso, Q.
"	M.A.	1863.	
Machar, John, M.A. ..	B.A.	1857.	Kingston.
Malloch, Archibald ..	B.A.	1862.	Hamilton.
Malloch, Edward G. ..	B.A.	1860.	Perth.
Malloch, George	B.A.	1865.	Arnprior.
Malloch, George W. ..	B.A.	1850.	Paisley.
Mann, James	M.D.	1869.	Renfrew.
Mark, Robert	M.D.	1867.	Ottawa.
Massie, John	M.D.	1865.	Colborne.
Matheson, Murdock ..	M.D.	1870.	Arenac, Mich.
Mattice, William D. ..	B.A.	1847.	(Deceased.)
May, John	B.A.	1857.	Ottawa.
"	M.A.	1861.	
Meadows, R.W., L.R.C.S.E.	M.D.	1862.	H. M. Service.
Meagher, Daniel	M.D.	1867.	Montreal.
Mercer, John F.	M.D.	1855.	Goderich.
Miller, Thomas	B.A.	1852.	Milton. O.
Miller, Thomas	B.A.	1854.	Flamboro, O.

Name.	Degree.	Year of Graduation.	Present Residence.
Milligan, George ..	B.A. ..	1862. ..	Detroit, Mich.
Milliner, William S. ..	M.D. ..	1864. ..	Rochester, N.Y.
Minor, Silas	M.A. ..	1865. ..	(Deceased.)
Monro, John C.	M.D. ..	1867. ..	South Finch.
Moore, Andrew	M.D. ..	1863. ..	Renfrew.
Moore, Vincent H. ..	M.D. ..	1870. ..	Brockville.
Morden, James B. ..	M.D. ..	1865. ..	Pictou.
Morden, John H. ..	M.D. ..	1859. ..	Brockville.
Morrison, Duncan ..	B.A. ..	1862. ..	Owen Sound.
Morrison, Duncan ..	B.A. ..	1866. }	Owen Sound.
" "	M.A. ..	1868. }	
Mostyn, William	M.D. ..	1858. ..	Almonte.
Mowat, John B.	B.A. ..	1845. }	Kingston.
" "	M.A. ..	1847. }	
Mowat, Oliver	LL.D. ..	1872. ..	Toronto.
Muckleston, John S. ..	B.A. ..	1865. ..	Kingston.
Mudie, John A.	B.A. ..	1863. ..	Kingston.
Mair, Alexander	B.A. ..	1851. ..	Scarborough.
Muir, James	B.A. ..	1861. ..	Huntingdon, Q.
Muir, James B.	B.A. ..	1865. }	
" "	M.A. ..	1869. }	
Muir, James C.	D.D. ..	1858. ..	North Georgetown, Q.
Muir, Peter D.	B.A. ..	1856. ..	(Deceased.)
Munro, David	M.D. ..	1867. ..	Lanark.
Macadam, Samuel T. ..	M.D. ..	1873. ..	Pembroke.
Macalister, John	B.A. ..	1865. ..	Danville, Q.
Macauley, Evan	B.A. ..	1864. ..	Mono Mills.
MacCraken, John I. ..	B.A. ..	1874. ..	Ottawa.
Macdonald, Alexander	B.A. ..	1861. ..	Collingwood, O.
Macdonald, Alex. R. ..	M.D. ..	1857. ..	(Deceased.)
Macdonald, Colin	B.A. ..	1855. ..	
Macdonald, Donald ..	B.A. ..	1854. ..	
Macdonald, Duncan ..	B.A. ..	1859. }	Creemore, O.
" "	M.A. ..	1863. }	
Macdonald, Herbert S. ..	B.A. ..	1859. }	Brockville.
" "	M.A. ..	1861. }	
Macdonald, Sir John A.	LL.D. ..	1863. ..	Ottawa.
Macdonnell, Daniel J. ..	B.A. ..	1858. }	Toronto.
" "	M.A. ..	1860. }	
Macdonnell, George M.	B.A. ..	1860. ..	Kingston.
Macdonell, John A. ..	M.D. ..	1862. ..	Prescott.
Macdonnell, John M. ..	B.A. ..	1868. ..	Winnepeg, M.
Macgillivray, Malcolm	B.A. ..	1872. }	Collingwood.
" "	M.A. ..	1874. }	
Mackerras, John H. ..	B.A. ..	1850. ..	Kingston.
" "	M.A. ..	1852. }	
Maclean, Matthew W. ..	B.A. ..	1869. }	Belleville.
" "	M.A. ..	1872. }	
MacLennan, Alexander ..	B.A. ..	1857. ..	Uxbridge.
MacLennan, Donald ..	B.A. ..	1848. }	
" "	M.A. ..	1862. }	

Name.	Degree.	Year of Graduation.	Present Residence.
MacLennan, Donald B...	B.A.	1857.	Cornwall.
" " ..	M.A.	1861.	
MacLennan, James ..	B.A.	1849.	Toronto.
MacLennan, John ..	B.A.	1855.	Lindsay.
MacLennan, Kenneth ..	B.A.	1849.	Peterboro'.
" " ..	M.A.	1868.	
MacLennan, William ..	B.A.	1864.	(Deceased).
" " ..	M.A.	1866.	
Macnee, Peter C. ..	B.A.	1873.	Orangeville.
Macpherson, Alexander ..	M.D.	1862.	Martintown.
Macpherson, Henry ..	B.A.	1851.	Owen Sound.
Macpherson, James P. ..	B.A.	1857.	Ottawa.
" " ..	M.A.	1865.	
McBain, Alexander ..	B.A.	1860.	(Deceased.)
" " ..	M.A.	1862.	
McBean, Alexander G. ..	B.A.	1865.	Montreal.
McCammon, James ...	M.D.	1863.	Kingston.
McCaul, James ...	B.A.	1859.	Three Rivers, Q.
McColl, Evan C. W. ...	B.A.	1866.	Norwich, O.
McCulloch, Andrew ...	B.A.	1871.	Scotland, O.
" " ..	M.A.	1874.	
McDowell, James A. ..	B.A.	1867.	Sarnia.
McEwen, James	B.A.	1852.	Westminster.
" "	M.A.	1854.	
McGillivray, Alexander	D.D.	1858.	(Deceased.)
McGillivray, Daniel ..	B.A.	1864.	Brockville.
McGillivray, Farquhar	B.A.	1852.	Civil Service, Ottawa.
McGillivray, Neil. . .	B.A.	1848.	Montreal.
McGregor, Peter C. ..	B.A.	1866.	Almonte.
McGuire, Thomas H. ..	B.A.	1870.	Kingston.
McIntyre, Donald M. ..	B.A.	1874.	Kingston.
McIntyre, Duncan ..	M.D.	1864.	Glencoe.
McIntyre, John	B.A.	1847.	(Deceased.)
McIntyre, John	B.A.	1861.	Kingston.
" "	M.A.	1872.	
McKay, Donald G. ..	B.A.	1865.	(Deceased.)
McKay, William E. ..	B.A.	1856.	Orangeville, O.
McKee, William	B.A.	1872.	Clover Hill, O.
McKellar, Dugald ..	M.D.	1855.	(Deceased.)
McKenzie, Andrew ..	M.D.	1862.	(Deceased.)
McKenzie, Edward ..	M.D.	1860.	Smith's Falls.
McKenzie, John A. ..	B.A.	1856.	Sarnia.
McLaren, Alexander ..	M.D.	1865.	Riceville, O.
McLaren, Ebenezer D. .	B.A.	1870.	Merrickville.
" " ..	M.A.	1873.	
" " ..	B.D.	1873.	
McLaren, James	B.A.	1850.	Nelson.
McLaren, John	B.A.	1860.	(Deceased.)
McLaren, Peter	B.A.	1854.	(Deceased.)
McLaren, Peter	B.A.	1866.	
McLaren, Peter	LL.D.	1868.	Renfrew, Scotland.

Name.	Degree.	Year of Graduation.	Present Residence.
McLean, Caird R. . .	M.D. . .	1859. . .	Meaford.
McLean, Donald J. . .	B.A. . .	1855. . .	Arnprior.
McLean, Solomon C. . .	M.D. . .	1874. . .	Kingston.
McLean, Thomas F. . .	M.D. . .	1863. . .	Goderich.
McLennan, Alexander S.	M.D. . .	1873. . .	Chicago.
McLeod, James A. F. . .	B.A. . .	1854. . .	Oakridge, O.
McMahon, James . .	M.D. . .	1873. . .	Texarkana, Texas.
McMillan, Duncan . .	B.A. . .	1857. . .	London, O.
McMillan, John . . .	B.A. . .	1862. . .	Truro, N.S.
" " . . .	B.D. . .	1865. . .	
McMorrine, John . . .	D.D. . .	1865. . .	(Deceased.)
McMorrine, John K. . .	B.A. . .	1859. . .	Almonte, O.
" " . . .	M.A. . .	1863. . .	
McMorrine, Samuel . .	B.A. . .	1865. . .	Montreal.
" " . . .	M.A. . .	1872. . .	
McNab, Finlay F. . .	B.A. . .	1859. . .	Carleton Place.
McTavish, Duncan B. . .	B.A. . .	1870. . .	Kingston.
" " . . .	M.A. . .	1873. . .	
McQuarrie, Alexander R.	B.A. . .	1862. . .	Quebec.
Neill Robert . . .	D.D. . .	1872. . .	Seymour East, O.
Neish, James. . . .	M.D. . .	1865. . .	Odessa.
Nelles, Samuel S. . .	D.D. . .	1861. . .	Cobourg.
Nesbitt, Edward . . .	M.D. . .	1868. . .	Huston, Co. Wellington.
Newton, John . . .	M.D. . .	1866. . .	Mill Point, O.
Nichol, James . . .	M.D. . .	1863. . .	(Deceased.)
Nicholson, Alexander . .	B.A. . .	1867. . .	Kingston, N.Y.
Nimmo, John H. . . .	B.A. . .	1867. . .	Tamworth, O.
Niven, David P. . . .	B.A. . .	1867. . .	Sutton.
Noel, John V. . . .	B.A. . .	1863. . .	
Oliver, Alfred S. . . .	M.D. . .	1863. . .	Kingston.
Oliver, John K. . . .	M.D. . .	1868. . .	Kingston.
O'Loughlin, Robert S. . .	B.A. . .	1865. . .	New York.
" " . . .	M.A. . .	1874. . .	
O'Reilly, Anthony . . .	M.D. . .	1861. . .	(Deceased.)
O'Sullivan, John . . .	M.D. . .	1868. . .	Peterborough.
Parker, Robert . . .	M.D. . .	1861. . .	Stirling.
Paterson, James R. . .	M.D. . .	1867. . .	Tiverton.
Perrault, Julien . . .	M.D. . .	1857. . .	San Francisco, Cal.
Pope, Stephen D. . . .	B.A. . .	1861. . .	
Potter, Levi	M.D. . .	1870. . .	
Preston, Robert H. . .	M.D. . .	1864. . .	Newboro.
Price, Cornelius V. . .	LL.B. . .	1863. . .	Kingston.
Price, Robinson B. . .	M.D. . .	1866. . .	Bath.
Purdy, Alvanly W. . .	M.D. . .	1873. . .	Seeley's Bay.
Purdy, Charles W. . .	M.D. . .	1869. . .	Hastings.
Ramsay, Robert . . .	M.D. . .	1861. . .	Orillia.
Reeve, Richard A. . .	M.D. . .	1865. . .	Toronto.
Reily, Adrian	M.D. . .	1862. . .	Welland.
Renaud, Allen C. . . .	B.A. . .	1864. . .	Australia.
Roche, William P. . .	M.D. . .	1860. . .	North Gower.
Rockwell, Albert. . .	M.D. . .	1868. . .	Frankville.

Name.	Degree.	Year of Graduation.	Present Residence.
Rockwell, Ashbel S. ...	M.D. ...	1873, ...	
Rogers, Robert V. ..	B.A. ...	1861. ...	Kingston.
Rollo, James.. ..	B.A. ...	1852. ...	Toronto.
Romanes, George ..	LL.D. ...	1866. ...	(Deceased.)
Rose, George R. ..	B.A. ...	1854. }	U. S. Service.
" " ..	M.D. ...	1860. }	
Ross, George S. ..	B.A. ...	1856. ...	
Ross, Donald.. ..	B.A. ...	1860. }	Cushing, Q.
" " ..	M.A. ...	1862. }	
" " ..	B.D. ...	1863. }	
Ross, John Reid ..	B.A. ...	1862. ...	
Rourke, Francis ..	M.D. ...	1872. ...	Montreal.
Rowse, Mark.. ..	B.A. ...	1870. ...	Bath, O.
Ruttan, Joseph B..	M.D. ...	1870. ...	Picton.
Rutherford, James ..	M.D. ...	1870. ...	Harriston.
Saunders, Herbert J. ..	M.D. ...	1869. ...	Kingston.
Saunders, Laurence ..	M.D. ...	1868. ...	Bristol, England.
Sayers, Alexander..	M.D. ...	1870. ...	Cherry Valley, Picton.
Scott, William S..	M.D. ...	1855. ...	Saugeen.
Searls, Abram W. ..	M.D. ...	1864. ...	Milford.
Shaw, Robert ..	B.A. ...	1873. ...	Kingston.
Shier, James.. ..	B.A. ...	1863. ...	
Shirley, Joseph W. ..	M.D. ...	1863. ...	Watford.
Sieveright, James ..	B.A. ...	1855. ...	Goderich.
Siewewright, James A..	M.D. ...	1870. ...	Allan S.S. Line.
Simpson, James ..	B.A. ...	1864. ...	
Skinner, Henry ..	M.D. ...	1862. ...	Kingston.
Smith, George ..	M.D. ...	1858. ...	(Deceased.)
Smith, James C. ..	B.A. ...	1861. ...	
" " ..	M.A. ...	1863. ...	Hamilton.
Smith, John R. ..	M.D. ...	1863. ...	Harrowsmith.
Sommerville, James A..	B.A. ...	1859. }	Watford.
" " ..	M.D. ...	1866. }	
Spafford, H. W. ..	M.D. ...	1855. ...	(Deceased.)
Sparham, George S. ..	M.D. ...	1859. ...	Cataraqui.
Spear, Hugh.. ..	M.D. ...	1873. ...	Leaskdale
Spence, Alexander ..	D.D. ...	1864. ...	Elgin, Scotland.
Spencer, Henry ..	M.D. ...	1862. ...	
Spooner, George D. ..	M.D. ...	1860. ...	(Deceased.)
Spooner, Hiram R. ..	M.D. ...	1869. ...	
Sproat, Alexander ..	B.A. ...	1853. ...	Walkerton.
Squire, William W. ..	B.A. ...	1854. }	(Deceased.)
" " ..	M.A. ...	1864. }	
Stewart, Alexander J..	M.D. ...	1869. ...	Angus, O.
Stowell, Olmsby O. ..	M.D. ...	1869. ...	
Stuart, Irwin.. ..	B.A. ...	1870. ...	Colorado.
Sullivan, Michael ..	M.D. ...	1858. ...	Kingston.
Sullivan, Thomas..	M.D. ...	1863. ...	St. Catharines.
Sullivan, William..	B.A. ...	1862. ...	Kingston.
Sutherland, Robert ..	B.A. ...	1852. ...	Walkerton.
Sweetland, John ...	M.D. ...	1858. ...	Ottawa.

Name.	Degree.	Year of Graduation.	Present Residence.
Switzer, Wilson J. ...	M.D. ...	1862. ...	Camden.
Tarbell, Horace S. ...	B.A. ...	1862. ...	
Tassie, William ...	LL.D. ...	1871. ...	Galt
Taylor, James ...	M.D. ...	1864. ...	Tara.
Taylor, William F. ...	M.D. ...	1861. ...	Australia.
Thibodo, Augustus J. ...	M.D. B.A. ...	1851. ...	} Walla-walla.
" " " " ...	M.A. ...	1854. ...	
Thibodo, Oliver ...	M.D. ...	1857. ...	Arizona.
Thibodo, Robert ...	M.D. ...	1862. ...	} Chicago.
" " " " ...	B.A. ...	1862. ...	
Thibodo, William B. ...	B.A. ...	1862. ...	} Manitoba.
" " " " ...	M.A. ...	1865. ...	
Thirkell, William G. ...	M.D. ...	1861. ...	Sodus, N. Y.
Thompson, John R. ...	B.A. ...	1865. ...	} Washington Territory.
" " " " ...	M.A. ...	1868. ...	
Thomson, George ...	B.A. ...	1863. ...	
Thomson, John ...	B.A. ...	1855. ...	
Thornton, Thomas H. ...	M.D. ...	1870. ...	Consecon.
Thornton, William M. ...	M.D. ...	1864. ...	Perth, O.
Tracey, Robert ...	M.D. ...	1862. ...	Belleville.
Tracey, Thomas B. ...	M.D. ...	1865. ...	Kingston.
Trousdale, James D. ...	M.D. ...	1860. ...	(Deceased.)
Valleau, George Z. ...	M.D. ...	1867. ...	Shannonville.
Van Allen, John R. ...	M.D. ...	1871. ...	Chatham.
Vanvlack, Gilbert J. ...	M.D. ...	1869. ...	Windsor.
Wafer, Francis M. ...	M.D. ...	1867. ...	Kingston.
Walbridge, Asa F. ...	B.A. ...	1854. ...	Newcastle, O.
Walkem, William W. ...	M.D. ...	1873. ...	Portsmouth, O.
Walker, Allen H. ...	M.D. ...	1867. ...	Dundas.
Wallace, Alexander ...	B.A. ...	1847. ...	(Deceased.)
Wartman, Philander C. ...	M.D. ...	1864. ...	(Deceased.)
Watson, Andrew ...	B.A. ...	1861. ...	Springbank, O.
Watson, Charles V. ...	M.D. ...	1863. ...	Wellington.
Watson, David ...	B.A. ...	1850. ...	} Beaverton.
" " " " ...	M.A. ...	1852. ...	
Watson, Donald ...	B.A. ...	1851. ...	(Deceased.)
Watson, Peter ...	B.A. ...	1852. ...	Williamstown.
Weekes, William J. ...	M.D. ...	1865. ...	Walkerton.
Weir, William ...	M.D. ...	1861. ...	Merrickville.
Willis, Michael D. D. ...	LL.D. ...	1863. ...	Scotland.
Wilson, Charles J. C. ...	M.D. ...	1869. ...	Str. Galacia, Pacific Line.
Wilson, John A. ...	M.D. ...	1863. ...	Cannington, O.
Wylie, James ...	B.A. ...	1864. ...	Hamilton.
Yates, Horatio ...	M.D. ...	1863. ...	Kingston.
Yates, Octavius ...	M.D. ...	1856. ...	Kingston.
Yeomans, George A. ...	B.A. ...	1863. ...	Winterbourne.
Yeomans, Horace P. ...	B.A. ...	1860. ...	} Mount Forest.
" " " " ...	M.D. ...	1863. ...	
Young, David ...	M.D. ...	1871. ...	Manitoba.
Young, Daniel ...	M.D. ...	1862. ...	Syracuse, N. Y.

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THOMAS D. CUMBERLAND.

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First Resident Vice-President...MALCOLM MCGILLIVRAY, M.A.
Second Resident Vice-President..GEORGE CLAXTON.
Secretary.....JOHN B. DOW.
Treasurer.....JOHN M. DUFF.
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MALCOLM OXLEY, DAVID P. CLAPP, JAMES B. CUMBERLAND, JOHN FERGUSON.

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Vice-President...DUNCAN B. MCTAVISH, M.A.
Secretary.....THOMAS WILSON.
Treasurer.....JOHN PRINGLE.
Committee—WILLIAM A. LANG, B.A., JOHN I. MACCRACKEN, B.A.

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Vice-President.....THOMAS D. CUMBERLAND.
Secretary-Treasurer JOHN PRINGLE.
Committee—JOHN HERALD, GEORGE CLAXTON, CHARLES McDOWELL, JAMES
CORMACK, B.A.

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Captain.....JOHN BALL DOW.
Secretary.....GEORGE GILLIES, B.A.
TREASURER.....THOMAS D. CUMBERLAND.
Committee—WILLIAM A. LANG, B.A., DUNCAN B. MCTAVISH, M.A., ALEXANDER
H. CAMERON, JAMES G. STUART.

GLEE CLUB.

President.....ROBERT J. CRAIG, M.A.
Secretary-Treasurer...THOMAS GLASSFORD.

QUEEN'S UNIVERSITY.

Session 1873-74.



Pass Examination Papers
IN ARTS.

KINGSTON:
1874.

FIRST YEAR.

LATIN.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Virgil, *Æneid*, Bk. XII. vv. 212–233.

Talibus inter se firmabant foedera dictis,
 Conspectu in medio procerum : tum rite sacratas
 In flammam jugulant pecudes, et viscera vivis
 Eripiunt, cumulantque oneratis lancibus aras. 215
 . At vero Rutulis impar ea pugna videri
 Jamdudum, et vario misceri pectora motu ;
 Tum magis, ut propius cernunt non viribus aequis.
 Adjuvat, incessu tacito progressus, et aram
 Suppliciter venerans demisso lumine, Turnus, 220
 Tabentesque genae, et juvenali in corpore pallor.
 Quem simul ac Juturna soror crebrescere vidit
 Sermonem, et vulgi variare labantia corda ;
 In medias acies, formam assimulata Camerti,
 Cui genus a proavis ingens, clarumque paternae 225
 Nomen erat virtutis, et ipse acerrimus armis ;
 In medias dat sese acies, haud nescia rerum,
 Rumoresque serit varios, ac talia fatur :
 Non pudet, o Rutuli ! pro cunctis talibus unam
 Objectare animam ? numerone, an viribus, aequi 230
 Non sumus ? En ! omnes, et Troes et Arcades, hi sunt,
 Fatalisque manus, infensa Etruria Turno :
 Vix hostem, alterni si congrediamur, habemus.

1. Parse *foedera*, *procerum*, *viscera*, *eripiunt*, *lancibus*, *misceri*, *viribus*, *adjuvat*, *venerans*, *tabentes*, *crebrescere*, *vulgi*, *labantia*, *corda*, *serit*, *pudet*, *congrediamur*.
2. Derive *suppliciter*, *ac*, *rumor*, *cunctus*, *crebresco*.
3. *Flamma*, *vivus*, *magis*, *lumen*, *soror*, *objecto*, *hostis*.
What was the original form of these ?
4. Give Greek words containing the roots of *medius*, *pugna*, *misceo*, *cerno*, *simul*, *vulgus*, *et*, *anima*.
5. *Pugna*. Of what the subject ?
6. *In flammam jugulant*. What construction does this illustrate ?
7. *Pudet*. What is its object ?
8. *Vivis—lancibus—Rutulis—viribus—formam—Camerti—cui*. Account for these Cases.
9. *Fatalis manus*. Explain the allusion.

10. Distinguish between *interficio*, *occido*, *neco*, *trucido*, *jugulo*—*omnis*, *totus*, *cunctus*.
 11. What do you remark of the construction in vv. 219–221?
 12. Scan and defend vv. 232.
 13. What in all probability was the origin of Rome?
-
14. Who were allied against Latinus and Turnus? What formed the grounds of this alliance?
 15. How were the rights of Roman citizenship acquired and lost?
 16. Describe fully the relationship of Patron and Client.
 17. What were the *insignia* of the Senators? Of the Equites?
 18. What were the general regulations of the Comitia?

FIRST YEAR.

LATIN.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Hor. Car. Bk. III., 6, vv. 13-36.

Pæne occupatam seditionibus
Delevit Urbem Dacus et Æthiops ;
Hic classe formidatus, ille
Missilibus melior sagittis. 15

Fecunda culpæ sæcula nuptias
Primum inquinavere, et genus, et domos ;
Hoc fonte derivata clades
In patriam populumque fluxit. 20

Non his juvenus orta parentibus
Infecit æquor sanguine Punico,
Pyrrhumque et ingentem cecidit
Antiochum, Hannibalemque dirum ;

Sed rusticorum mascula militum
Proles, Sabellis docta ligonibus
Versare glebas, et severæ
Matris ad arbitrium recisos 25

Portare fustes, sol ubi montium
Mutaret umbras, et juga demeret
Bobus fatigatis, amicum
Tempus agens abeunte curru. 30

Damnosa quid non imminuit dies !
Ætas parentum, pejor avis, tulit
Nos nequiores, mox daturos
Progeniem vitiosiore. 35

1. Parse *delevit*, *nuptias*, *fluxit*, *orta*, *cecidit*, *docta*, *recisos*, *demeret*, *bobus*, *abeunte*, *imminuit*, *avis*, *nequiores*.
2. Derive *occupo*, *seditio*, *derivo*, *non*, *parens*, *dirus*, *sed*, *Sabellus*, *arbitrium*, *ubi*, *muto*, *fatigo*, *damnosus*, *ætas*, *pejor*.
3. *Sagittis*—*culpæ*—*parentibus*—*proles*—*bobus*. Account for these Cases.
4. *Dacus*—*Æthiops*. Explain the allusion.
5. *Pyrrhus*—*Antiochus*—*Hannibal*. Who? To what transactions does the poet here refer?
6. *Delevi*. What was its original form? What is the Perf. Ind. of *docta*? Explain the difference of form.

7. Account for the variation in the Supines of *delso*, *moneo*, *doceo*, verbs of the same conjugation.
8. *In.* What are the Greek representatives of the root of of this? The different treatment of it by the Greek and Latin illustrates what peculiarity of these languages?
9. From what provinces did the Romans recruit their bravest soldiers?
10. Scan and defend vv. 18, 19, 20. Give the technical names of the Metres.
11. Explain the purport of this Ode.
12. State concisely your views of Horace's principles, tastes and poetic talent.
13. From what Greek poets did Horace borrow his metres?
14. *Ero.* Decline this in its primitive form.
15. *Capio*, *concipio*, *occupo*—*famulus*, *familia*—*pario*, *reperio*—*scando*, *conscendo*—*vello*, *vulsum*. Account for the variations of the radical vowel in these.
16. Account for the presence of *u* in *sum*—*p* in *hiemps*—*u* in *Hercules*.
17. What laws govern the changes which a word undergoes? Is the tendency from gutturals to dentals, or *vice versa*? From explosives to fricatives, or otherwise? Why?

GREEK PROSE.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Lucian, Timon, pp. 85 c—86 b.

περὶ δὲ τῶν κολάκων ἐκείνων, καὶ τῆς ἀχαριστίας, ἣν ἐπεδείξαντο πρὸς αὐτὸν, καὶ αὐθις μὲν σκέψομαι, καὶ δίκην δώσουσιν, ἐπειδὰν τὸν κεραυνὸν ἐπισκευάσω· κατεαγμένοι γὰρ αὐτοῦ καὶ ἀπεστομωμένοι εἰσὶ δύο ἀκτῖνες αἱ μέγισται, ὅποτε φιλοτιμότερον ἡκόντισα πρῶην ἐπὶ τὸν σοφιστὴν Ἀναξαγόραν ὃς ἔπειθε τοὺς ὁμιλητὰς μὴδὲ ὅλως εἶναί τινας ἡμᾶς τοὺς θεοὺς. ἀλλ' ἐκείνου μὲν διήμαρτον, (ὑπερέσχε γὰρ αὐτοῦ τὴν χεῖρα Περικλῆς)· ὁ δὲ κεραυνὸς εἰς τὸ ἀνάκειον παρασκήψας, ἐκείνῳ τε κατέφλεξε, καὶ αὐτὸς ὀλίγου δεῖν συνετρίβη περὶ τῇ πέτρᾳ. πλὴν ἱκανὴ ἐν τοσούτῳ καὶ αὕτη τιμωρία ἔσται αὐτοῖς, εἰ ὑπερπλουτοῦντα τὸν Τίμωνα ὀρώσιν. EPM. Οἶον ἦν τὸ μέγα κεκραγέαι, καὶ ὀχληρὸν εἶναι, καὶ θρασύν; οὐ τοῖς δικαιολογοῦσι μόνοις, ἀλλὰ καὶ τοῖς εὐχομένοις τοῦτο χρήσιμον· ἰδοὺ γὰρ αὐτίκα μάλα πλούσιος ἐκ πενεστάτου καταστήσεται ὁ Τίμων, βοήσας, καὶ παρῤῥησιασάμενος ἐν τῇ εὐχῇ, καὶ ἐπιστρέψας τὸν Δία. εἰ δὲ σιωπῇ ἔσκαπτεν ἐπικεκυφώς, ἔτι ἂν ἔσκαπτεν ἀμελούμενος.

1. Parse ἐπεδείξαντο, σκέψομαι, ἐπισκευάσω, κατεαγμένοι, ἀπεστομωμένοι, ἀκτῖνες, διήμαρτον, ὑπερέσχε, κατέφλεξε, συνετρίβη, ὀρώσιν, κεκραγέαι, δικαιολογοῦσι, ἰδοὺ, καταστήσεται, ἐπικεκυφώς.
2. Derive ἀκοντίζω, ὁμιλητής, ἀνάκειον, παρῤῥησιάζομαι.
3. Give Latin words containing the roots of ἐπεδείξαντο, ὅλως, κατέφλεξε, ἔσκαπτεν.
4. δίκην δίδοναι. How has this phrase come to signify "to suffer punishment?"
5. μὴδέ. What is its force here? Why not οὐδέ?
6. τινας—αὐτοῦ (τὴν χεῖρα)—οἶον—ὀχληρὸν. Account for these Cases.
7. ἡκόντισα—ἔπειθε—ὑπερπλουτοῦντα—ἐπικεκυφώς. Account for these Tenses.

8. ὀλίγου δεῖν. Why is the former in the Genitive and the latter in the Infinitive?

9. εἰ δὲ σιωπῇ ἔσκαπτεν ἐπικεκυφώς, ἔτι ἂν ἔσκαπτεν ἀμελούμενος. Translate this so as to express the full meaning which it conveyed to a Greek.

10. (1) ἐπειδὰν ἐπισκενάσω.

(2) πλούσιος καταστήσεται ὁ Τίμων, βοήσας.

How would these be respectively rendered in Latin?

11. Distinguish between (1) ἀστραπή, βροντή, κεραυνός.

(2) οὗτος, ἐκεῖνος, ὁ αὐτός.

(3) πέτρος, πέτρα, σκόπελος.

(4) τοιοῦτος, τοσοῦτος.

(5) πένης, πτωχός.

Also, give Latin equivalents for all these.

12. *Anaxagoras—Pericles*. Who were these? Explain the allusion in the passage.

13. αἰγιόχοιο. What was the original termination? What did it become? Trace the successive changes.

14. εἶν and *sim*. Trace these up to a common form.

15. On what *philological* grounds do we establish a common origin for the several branches of the Indo-European race?

16. By what routes did the several families of the Hellenic stock enter Greece?

17. What was the prominent characteristic of Lucian's genius? What object did he set before him in his writings?

FIRST YEAR.

GREEK VERSE.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Hom. II., VI. vv. 405—422.

Ἀνδρομάχῃ δέ οἱ ἄγχι παρίστατο δακρυχέουσα,
 "Ἐν τ' ἄρα οἱ φῦ χειρὶ, ἔπος τ' ἔφατ', ἔκ τ' ὀνόμαζεν.
 "Δαιμόνιε, φθίσει σε τὸ σὸν μένος, οὐδ' ἐλεαίρεις
 Παῖδά τε νηπίαχον καὶ ἔμ' ἄμμορον, ἣ τάχα χήρῃ
 Σεῦ ἔσομαι· τάχα γάρ σε κατακτανέουσιν Ἀχαιοὶ
 Πάντες ἐφορμηθέντες· ἐμοὶ δέ κε κέρδιον εἶη
 Σεῦ ἀφαμαρτούσῃ χθόνα δύμεναι· οὐ γὰρ ἔτ' ἄλλῃ
 "Ἔσται θαλπωρὴ, ἐπεὶ ἂν σύ γε πότμον ἐπίσπῃς,
 'Ἄλλ' ἄχε'. Οὐδέ μοι ἔστι πατήρ καὶ πότνια μήτηρ.
 "Ἦτοι γὰρ πατέρ' ἄμὸν ἀπέκτανε δῖος Ἀχιλλεύς,
 'Ἐκ δὲ πόλιν πέρσεν Κιλικῶν εὐναιετάωσαν,
 Θήβην ὑψίπυλον· κατὰ δ' ἔκτανεν Ἡετιῶνα,
 Οὐδέ μιν ἐξενάριξε, σεβάσσατο γὰρ τό γε θυμῷ,
 'Ἄλλ' ἄρα μιν κατέκχε σὺν ἔντεσι δαιδαλέοισιν
 'Ἦδ' ἐπὶ σῆμ' ἔχεεν· περὶ δὲ πτελέας ἐφύτευσαν
 Νύμφαι ὀρεστιάδες, κοῦραι Διὸς αἰγιόχοιο·
 Οἳ δέ μοι ἑπτὰ κάσιγνητοὶ ἔσαν ἐν μεγάροισιν,
 Οἱ μὲν πάντες ἰὼ κίον ἥματι Ἀῖδος εἴσω·

1. Parse παρίστατο, φῦ, φθίσει, κατακτανέουσιν, ἐφορμηθέντες, κέρδιον, δύμεναι, ἀφαμαρτούσῃ, ἐπίσπῃς, ἀπέκτανε, πέρσεν, εὐναιετάωσαν, ἐξενάριξε, σεβάσσατο, κατέκχε, ἔχεεν, ἔσαν, ἰὼ κίον, ἥματι.
2. Give the etymology of δακρυχέουσα, ἄρα, νηπίαχος, ἄμμορος, ὑψίπυλος, ἔντος, δαιδάλεος, πτελέα, αἰγιόχος, κασίγνητος.
3. Give Latin words containing the roots of φύω, ἔπος, φημί, τε, χῆρος, ἔτι, ἄλλος, πότνια, σύν, νύμφη.
4. What was the original form of ἴστατο, ἔπος, σεῦ, ἄλλος, δῖος, σύν, ἑπτὰ?
5. οἱ, χειρὶ, σεῦ, ἐμοί, ἄχεα, μοι, θυμῷ, ἥματι. Account for these Cases.
6. ἔσαν. What is the subject?
7. μιν. To what applied? Give its Latin and English correspondents.
8. Compare ἄγχι and τάχα. Account for the classic form of their Comparatives.

9. Distinguish between the use of Ἀχαιοί, Ἀργεῖοι, Δαναοί.
10. Scan and defend vv. 422.
11. State reasons which are supposed to determine the *retention* or *rejection* of the Syllabic Augment in Homer's poems.
12. What suffixes represent the Past Passive Participle in Greek, Latin and English respectively?
13. Decline the Present Indicative of λέγω in its original form, and account for the changes which the several persons underwent.
14. What was the original form of τύπτων, τύπτουσα, τύψας, τετυφώς, ἐτύψω, τύψη? Explain the several changes.
15. Why does the Conjunctive terminate in -μαι, and the Optative in -μην?
16. How is the Indo-European s between vowels treated by the Greek and Latin?
17. Point out resemblances between the Æolian and Dorian dialects of Greek on the one hand and Latin on the other—also between Spartan and Roman forms of polity and traits of national character. Account for these resemblances.

FIRST YEAR.

MATHEMATICS.

EXAMINER—PROFESSOR WILLIAMSON.

1. In what case omitted by Euclid are two triangles equal?
2. If a perpendicular CD be drawn from the vertex of a triangle ABC to the base the sum of the squares of one side AC, and of the alternate segment BD is equal to the sum of the squares on the other side BC, and the alternate segment AD.
3. The angles which stand on equal arcs are equal. If an arc of a circle be divided into three equal parts by straight lines drawn from one extremity of the arc, the angle contained by the two exterior lines is bisected by the middle line.
4. Give Euclid's fifth Definition B. V. To what kind of proportional magnitudes does this Definition apply to which the algebraic definition of proportion does not?
5. Ratios which are the same to the same ratio are the same to one another.
6. If four straight lines are proportional, the rectangle contained by the extremes is equal to the rectangle contained by the means. Hence prove Eucl. B. III. 35, that, if two chords in a circle cut one another, the rectangle under the segments of the one is equal to the rectangle under the segments of the other.
7. Eucl. B. VI. 20 Cor. 2. Construct a square which shall have a given ratio to a given square.
8. Define the *inclination of a plane to a plane*; a *solid angle*; an *octahedron*.
9. If two planes cut one another their common section is a straight line.
10. Define the *Sine*, *Cosine*, *Tangent* and *Secant* of an angle.
11. The sides of a plane triangle are as the sines of the opposite angles.

FIRST YEAR.

MATHEMATICS.

EXAMINER—PROFESSOR WILLIAMSON.

1. Prove that half the sum of any two quantities added to half their difference gives the greater, and diminished by half the difference gives the less.
2. Prove the rule for the signs in subtraction ; in multiplication.
3. Resolve into factors $2mn - m^2 - n^2 + a^2 + b^2 - 2ab$.
4. Multiply $x^3 + x^2y^3 + y^3$ by $x^3 - y^3$.
5. Divide $1 - 9x^8 - 8x^9$ by $1 + 2x + x^2$.
 $\text{————— } x^m - y^m$ by $x - y$ to 4 terms.
6. Find the 6th root of $m^6 - 12m^5 + 60m^4 - 160m^3 + 240m^2 - 192m + 64$.
7. Arrange in order of magnitude $\frac{1}{2} \sqrt[3]{2}, \frac{1}{3} \sqrt[3]{3}, \frac{1}{4} \sqrt[3]{4}$.
8. Simplify $\sqrt[3]{81} - \sqrt[3]{-512} + \sqrt[3]{192}$.
9. Prove the rule for completing the square in the affected quadratic $x^2 + px + q = 0$, and shew, from the investigation, that the sum of the roots with the signs changed is equal to the coefficient of the second term, and the product of the roots equal to the third term.
10. Solve the Equations—

$$1. \frac{x+y}{3} + 5 = 10$$

$$\frac{x-y}{2} + 7 = 9\frac{1}{2}$$

$$2. \sqrt{x+7} + \sqrt{x} = \frac{28}{\sqrt{x+7}}$$

$$3. x^2 + x = \frac{5}{16}$$

$$4. x^2 - \frac{2}{3}x = \frac{35}{9}$$

$$5. \frac{2x+8}{x-8} = \frac{x+8}{3x-8} - 7$$

$$6. \begin{aligned} x^3 + y^3 &= 2728 \\ x^2 - xy + y^2 &= 124 \end{aligned}$$

11. A man sculls down a stream which runs at the rate of 4 miles an hour for a certain distance in 1h. 40'. In returning it takes him 4h. 15' to arrive at a point 3 miles short of his starting place. Find the distance he pulled down the stream and the rate of his pulling.
12. When do quantities vary *directly*? *inversely*? *jointly*?
13. How do you multiply, and divide by Logarithms. Prove the rules.
14. State and prove the Expressions by which the sum of an Arithmetical Progression is found; of a Geometric Progression.

FIRST YEAR.

ENGLISH LANGUAGE.

EXAMINER—PROFESSOR FERGUSON.

1. Give a chart of the Teutonic Language.
2. State the elements which have contributed to the formation of the English Language.
3. Distinguish the periods of the introduction of the Romance element.
4. Give Grimm's tables of the variation of consonants in the Indo-Germanic Languages, and illustrate by such words as—Garden, Beech, Daughter and Hound.
5. Decline the Anglo-Saxon Nouns—Tunge, Denu, Toth and Brothor, and the Adjectives—Swaer and Halig, definitely and indefinitely.
6. Trace the history of the third personal pronoun Neuter.
7. Conjugate Tellan and give the principal parts of Cunnan, Magan and Dugan.
8. How are English Adverbs formed?; and give examples of each mode.
9. Translate—Tha thohte he that he wolde gesecan helle godu, and onginnan him oleccan mid his hearepan, and biddan that he him ageafan eft his wif. Tha he tha thider com, tha sceolde cuman, thare helle hund ongean hine, thas nama was Ceruerus; se sceolde habban thrio heafdu and ongan fagenian mid his steorte, and plegian with hine for his hearpunga. Tha was thar eac swithe egeslic geatweard, thas nama sceolde beon Caron. Se hafde eac thrio heafdu, and se was swithe oreald. Tha ongan the hearpere hine biddan that he hine gemundbyrde tha hwile the he thar ware, and hine gesundne eft thanon brohte. Tha gehet he him that and fortham he was oflyst thas seldcuthan sonas. Tha eode he furthor oth he gemette tha graman gydena the folcisce men hatath Parcas, tha hi secgath that on nanun men nyton nane are, ac alcum menn wrecan be his gewyrhtum; tha hi secgath that wealdan alces monnes wyrde.
10. Parse—ognan, gemundbyrde, brohte, gehet, oflyst, gemette, wealdan.

SECOND YEAR.

LATIN PROSE.

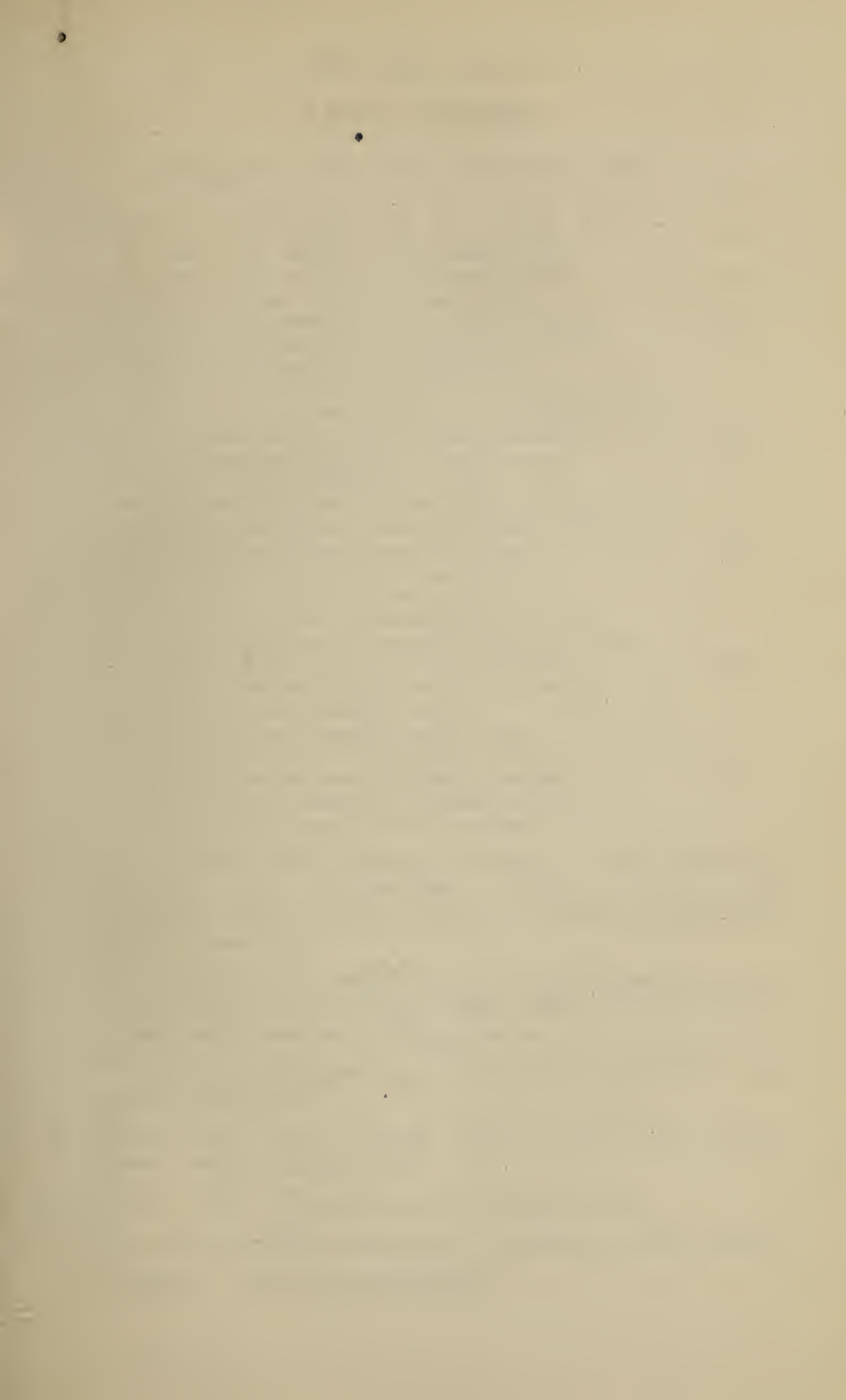
EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Cicero de Oratore, Bk. II, cap. 20.

Quare ego tibi oratorem sic jam instituam, si potero, ut, quid efficere possit, ante perspiciam. Sit enim mihi tinctus literis; audierit aliquid; legerit; ista ipsa praecepta acceperit; tentabo quid deceat, quid voce, quid viribus, quid spiritu, quid lingua efficere possit. Si intelligam posse ad summos pervenire, non solum hortabor, ut elaboret, sed etiam, si vir quoque mihi bonus videbitur, obsecrabo: tantum ego in eccellente oratore, et eodem viro bono, pono esse ornamentum universae civitati. Sin videbitur, cum omnia summa fecerit, tamen ad mediocres oratores esse venturus; permittam ipsi, quid velit; molestus magno opere non ero. Sin plane abhorrebit, et erit absurdus; ut se contineat, aut ad aliud studium transferat, admonebo. Nam neque is, qui optime potest, deserendus ullo modo est a cohortatione nostra, neque is, qui aliquid, potest, deterrendus quod alterum divinitatis mihi cujusdam videtur; alterum, vel non facere quod non optime possis, vel facere quod non pessime facias, humanitatis; tertium vero illud, clamare contra quam deceat, et quam possis hominis est (ut tu, Catule, de quodam declamatore dixisti) stultitiae suae quamplurimos testes domestico praeconio colligentis. De hoc igitur, qui erit talis, ut cohortandus adjuvandusque sit, ita loquamur, ut ei tradamus ea duntaxat, quae nos usus docuit, ut nobis ducibus veniat eo, quo sine duce ipsi pervenimus, quoniam meliora docere non possumus.

1. Parse *potero, tinctus, sit legerit, deceat, viribus, intelligam, elaboret, velit, abhorrebit, deserendus, deterrendus, colligentis, adjuvandus, docuit, pervenimus*.
2. Derive *sed, etiam, absurdus, optime, ullus, vel, stultitia, trado, duntaxat, quoniam, melior*.
3. What was the original form of *sic, lingua, posse, vir, pono, pessime, praeconium, igitur, quo*.
4. *Mihi—ornamenti—civitati—aliquid (potest)—divinitatis—hominis—nos—nobis—ipsi (pervenimus)*. Account for these Cases.
5. *Audierit—elaboret—fecerit*. Account for these Tenses.
6. *Potero—audierit—velit—facere—loquamur*. Account for these Moods.
7. *Ista*. What is its full force?
8. Distinguish between *litera* and *literæ—vel* and *aut*.
9. *Ut se contineat*. Why not *se continere*?
10. In what circumstances did the Dialogue, here assumed by Cicero, take place?

11. Who took part in it?
 12. According to Antony, what are the foundations of forensic eloquence?
-
13. How were the Roman revenues collected?
 14. What punishments were inflicted under Roman law?
 15. How many descriptions of *will* were there among the Romans? Describe them.





SECOND YEAR.

LATIN POETRY.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Virgil, Geor. Bk. I, vv. 432—457.

Sin ortu quarto, namque is certissimus auctor,	
Pura neque obtusis per coelum cornibus ibit ;	
Totus et ille dies, et qui nascentur ab illo	
Exactum ad mensem, pluvia ventisque carebunt,	435
Votaque servati solvent in littore nautæ	
Glauco, et Panopeæ, et Inoo Melicertæ.	
Sol quoque, et exoriens, et quum se condet in undas,	
Signa dabit : Solem certissima signa sequuntur,	
Et quæ mane refert, et quæ surgentibus astris.	440
Ille ubi nascentem maculis variaverit ortum,	
Conditus in nubem, medioque refugerit orbe ;	
Suspecti tibi sint imbres : namque urguet ab alto,	
Arboribusque satisque, Notus, pecorique, sinister.	
Aut ubi sub lucem densa inter nubila sese	445
Diversi rumpent radii, aut ubi pallida surget	
Tithoni croceum linquens Aurora cubile ;	
Heu ! male tum mites defendet pampinus uvas :	
Tam multa in tectis crepitans salit horrida grando.	
Hoc etiam, emenso quum jam decedet Olympo,	450
Profuerit meminisse magis ; nam sæpe videmus	
Ipsius in voltu varios errare colores.	
Cæruleus pluviam denunciat, igneus Euros :	
Sin maculæ incipient rutilo immiscerier igni,	
Omnia tunc pariter vento nimisque videbis	455
Fervere : non illa quisquam me nocte per altum	
Ire, neque a terra moneat convellere funem.	

1. Parse *obtusis, ibit, nascentem, exactum, Inoo, Melicertæ, exoriens, mane, surgentibus, suspecti, urguet, satis, crepitans, salit, grando, emenso, profuerit, immiscerier, fervere, convellere.*
2. Give Greek words containing the roots of *purus, cornu, mensis, careo, servo, sequor, nubes, imber, Notus, linquo, tectum, salio, meminini, rutilus, fervere.*
3. What was the *original* form of *ille, nauta, ubi, tibi, altus, multus, magis, sint.*
4. What are the Indo-European roots of *dies, ventus, condo, astrum, nubes, meminini, ire.*
5. *Aurora—ἠώς.* Trace these to a common form.
6. *Ortu—pluvia—tibi—arboribus.* Account for these Cases.
7. *Carebunt.* What is the subject ?

8. *Namque*. To what equivalent in Greek? What is its force?
9. What Figure is illustrated in vv. 440?
10. *Glauco et Panopeæ et Inoo Melicertæ*. Who? State the legend connected with each.
11. *Tithonus*. Who? Explain the allusion.
12. Scan and defend vv. 437.
13. What led Virgil to compose this Poem?
14. From what Greek authors did he draw many of his materials?
15. Of what does this Book treat?
16. How does the poet enliven his subject?
17. How many degrees were there in the torrid, temperate, and and frigid zones, according to ancient geographers before the time of Posidonius?—after the time of Posidonius?

SECOND YEAR.

GREEK PROSE.

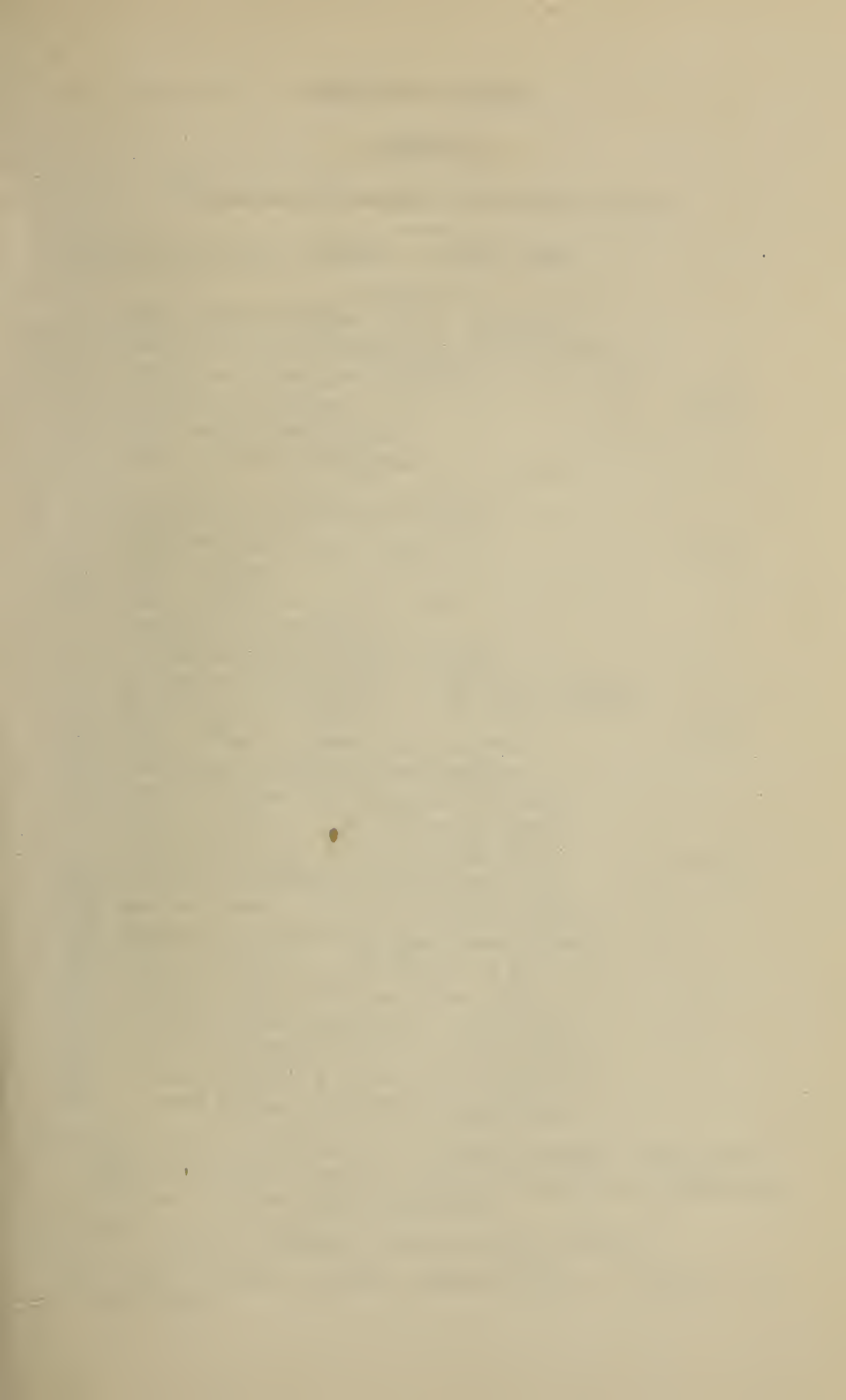
EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate Dem. Phil. III. 29, 30, 31.

ἀλλὰ μείζω γιγνόμενον τὸν ἄνθρωπον περιορῶμεν τὸν χρόνον κερδᾶναι τοῦτον ὃν ἄλλος ἀπόλλυται ἕκαστος ἐγνωκώς, ὥς γ' ἐμοὶ δοκεῖ, οὐχ ὅπως σωθήσεται τὰ τῶν Ἑλλήνων σκοπῶν οὐδὲ πράττων, ἐπεὶ ὅτι γε ὥσπερ περίοδος ἡ καταβολὴ πυρετοῦ ἢ τινος ἄλλου κακοῦ καὶ τῷ πάνυ πόρῳ δοκοῦντι νῦν ἀφεστάναι προσέρχεται, οὐδεὶς ἀγνοεῖ. Καὶ μὴν κακεῖνό γε ἴστε, ὅτι ὅσα μὲν ὑπὸ Λακεδαιμονίων ἢ ὑφ' ἡμῶν ἔπασχον οἱ Ἕλληνες, ἀλλ' οὖν ὑπὸ γνησίων γε ὄντων τῆς Ἑλλάδος ἡδικοῦντο, καὶ τὸν αὐτὸν τρόπον ἂν τις ἐπέλαβε τοῦθ' ὥσπερ ἂν εἰ υἱὸς ἐν οὐσίᾳ πολλῇ γεγονώς γνήσιος διῶκει τι μὴ καλῶς μὴδ' ὀρθῶς, κατ' αὐτὸ μὲν τοῦτό ἄξιον μέμφεως εἶναι καὶ κατηγορίας, ὥς δ' οὐ προσήκων ἢ ὥς οὐ κληρονόμος τούτων ὦν ταῦτα ἐποίει, οὐκ ἐνεῖναι λέγειν. Εἰ δέ γε δοῦλος ἢ ὑποβολιμαῖος τὰ μὴ προσήκοντα ἀπώλλυε καὶ ἐλυμαίνετο, Ἡράκλεις ὅσῳ μᾶλλον δεινὸν καὶ ὀργῆς ἄξιον πάντες ἂν ἔφασαν εἶναι! ἀλλ' οὐχ ὑπὲρ Φιλίππου καὶ ὦν ἐκεῖνος πράττει νῦν, οὐχ οὕτως ἔχουσιν, οὐ μόνον οὐχ Ἕλληνας ὄντος οὐδὲ προσήκοντος οὐδὲν τοῖς Ἕλλησιν, ἀλλ' οὐδὲ βαρβάρων ἐντεῦθεν ὅθεν καλὸν εἰπεῖν, ἀλλ' ὀλέθρου Μακεδόνοσ, ὅθεν οὐδ' ἀνδράποδον σπουδαῖον οὐδὲν ἦν πρότερον πρίασθαι.

1. Parse μείζω, περιορῶμεν, κερδᾶναι, ἀπόλλυται, ἐγνωκώς, σωθήσεται, ἀφεστάναι, ἴστε, ἡδικοῦντο, ἐπέλαβε, γεγονώς, διῶκει, ἐνεῖναι, ἀπώλλυε, ἐλυμαίνετο, ἔφασαν, πρίασθαι.
2. Derive γνήσιος, οὐσία, κληρονόμος, ὑποβολιμαῖος, δεινός, ὅθεν, ἀνδράποδον, πρίασθαι.
3. ὅν—ἕκαστος—τῷ (πάνυ)—Ἑλλάδος—τρόπον—Ἡράκλεις—ὅσῳ—ὦν—οὐδέν. Account for these Cases.
4. γιγνόμενον—ἐγνωκώς—ἔπασχον. Account for these Tenses.
5. εἶναι—ἐνεῖναι—πρίασθαι. Why in the Infinitive?
6. ὥσπερ ἂν. Supply the ellipsis.
7. μὴ καλῶς. Why not οὐ?
8. περίοδος.....πυρετοῦ. What different interpretations of this are given?
9. Was Demosthenes strictly correct in saying that the Macedonians were not Greeks? Give reasons for your opinion.

10. Was the allusion in the last line strictly a reproach to the Macedonians ?
11. When was this Philippic delivered ?
12. What was the condition of Athens at the time ?
13. What conquests had Philip made up to this period ?
14. By what policy did he advance to the mastery of Greece ?
15. State your views of the style of Demosthenes.





SECOND YEAR.

GREEK.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Eurip. *Alcestis*, vv. 462—489.

- κούφα σοι
- χθὼν ἐπάνωθε πέσοι, γύναι. εἰ δέ τι
 καινὸν ἔλοιτο λέχος πόσις, ἢ μάλ' ἔμοί τ' ἂν εἶη
 στυγθεῖς τέκνοις τε τοῖς σοῖς. 465
 ματέρος οὐ θελούσας
 πρὸ παιδὸς χθονὶ κρύψαι
 δέμας, οὐδὲ πατρὸς γεραιῶν,
 * * *
- δν ἔτεκον δ', οὐκ ἔτλαν ῥύεσθαι
 σχετλίῳ, πολιὰν ἔχοντε χαίταν. 470
 σὺ δ' ἐν ἥβᾳ
 νέᾳ προθανοῦσα φωτὸς οἴχει.
 τοιαύτας εἶη μοι κῦρσαι
 συνδυάδος φιλίας ἀλόχου· τὸ γὰρ
 ἐν βιότῳ σπάνιον μέρος· ἢ γὰρ ἐμοίγ' ἄλυπος
 δι' αἰῶνος ἂν ξυνείη. 475
- HP. ξένοι, Φεραίας τῆσδε κωμῆται χθονός,
 Ἄδμητον ἐν δόμοισιν ἄρα κιγχάνω ;
- XO. ἔστ' ἐν δόμοισι παῖς Φερητος, Ἡράκλεις·
 ἀλλ' εἰπὲ χρεῖα τίς σε Θεσσαλῶν χθόνα
 πέμπει, Φεραίων ἄστν προσβῆναι τόδε. 480
- HP. Τιρυνθίῳ πράσσω τιν' Εὐρυσθεῖ πόνον.
 XO. καὶ ποῖ πορεύει ; τῷ προσέξευξαι πλάνῳ ;
- HP. Θρηγκὸς τέτρωρον ἄρμα Διομήδους μέτα.
 XO. πῶς οὖν δυνήσει ; μῶν ἄπειρος εἰ ξένου ;
- HP. ἄπειρος· οὐπω Βιστόνων ἦλθον χθόνα. 485
 XO. οὐκ ἔστιν ἵππων δεσπόσαι σ' ἄνευ μάχης.
 HP. ἀλλ' οὐδ' ἀπειπεῖν τοὺς πόνους οἷόν τε μοι.
 XO. κτανὼν ἄρ' ἤξεις ἢ θανῶν αὐτοῦ μενεῖς.
 HP. οὐ τόνδ' ἀγῶνα πρῶτον ἂν δράμοιμ' ἐγώ.
1. Parse πέσοι, στυγθεῖς, κρύψαι, δέμας, ἔτεκον, ἔτλαν, ῥύεσθαι, ἥβᾳ, οἴχει, κῦρσαι, ξυνείη, κιγχάνω, προσβῆναι, προσέξευξαι, δεσπόσαι, κτανῶν, μενεῖς, δράμοιμ'.
 2. Derive φωτός, Ἡράκλεις, τέτρωρον, ἄρμα, ἄπειρος.
 3. σοι—ἐμοί—χθονί—φωτός—χθόνα—ἵππων. Account for these Cases.

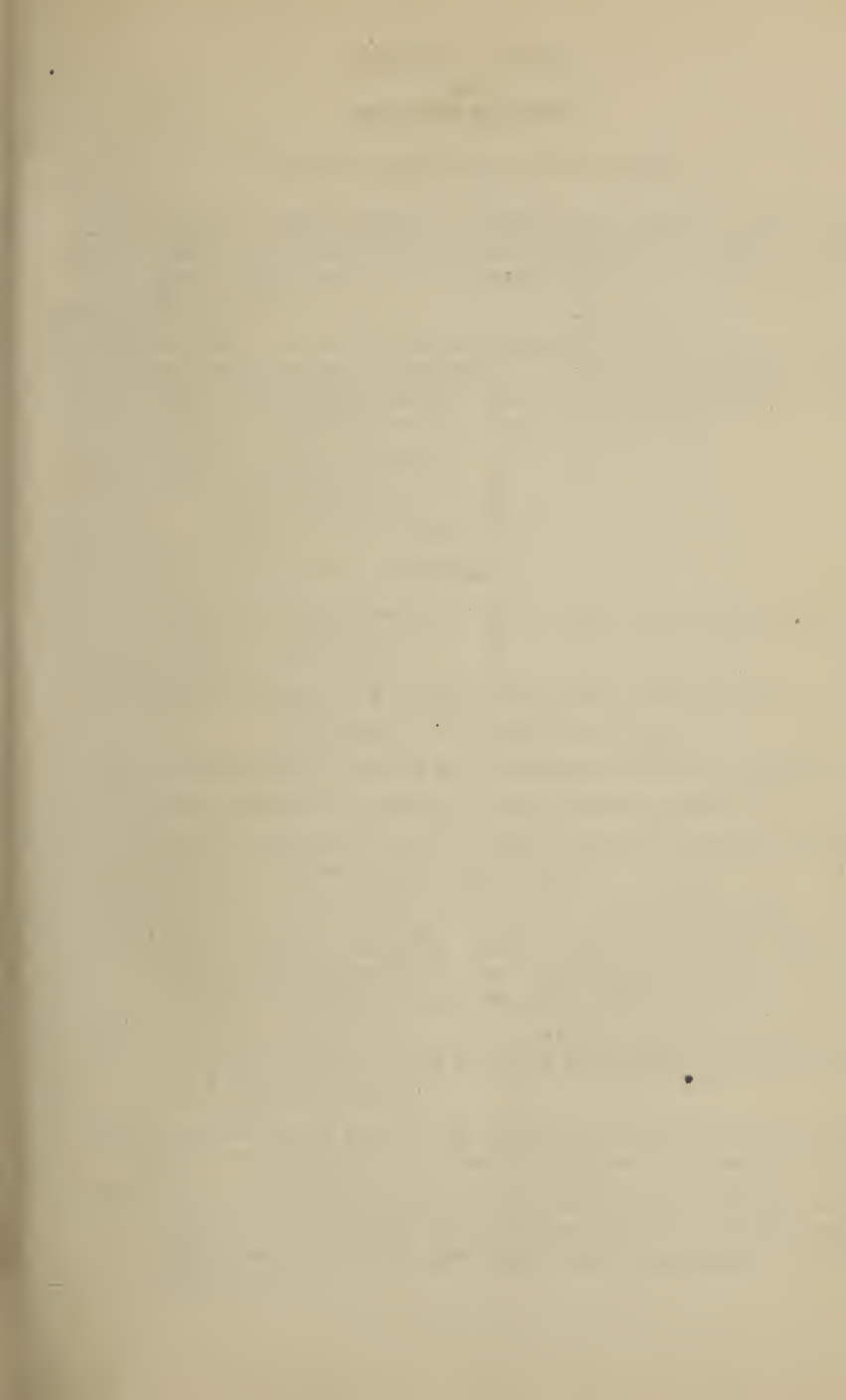
4. *πέσοι—ἔλοιτο—εἶη* (vv. 472)—*προσβῆναι*. Account for these Moods.
5. *ἄρα—μῶν*. What answer do these imply?
6. *οἷός τε*. Render this construction in full. To what equivalent in Latin?
7. *ἔστιν* (vv. 478)—*μέτα—ἔστιν* (vv. 486.) Why thus accented?
8. What is peculiar in the construction in verse 489?
9. Distinguish between *μυσέω* and *στογέω νέος* and *καινός—καλύπτω, κεύθω, κρύπτω ἄρα, ἄρα, ἀρά*.
10. Explain the allusion in vv. 481.
11. *Βιστόνες*. Who?
12. Whence is the metaphor in vv. 489 drawn?
13. Point out the instances of *Porsonian Pause* which occur in this passage.
14. How many instances of the *Penthemimeral Cæsura* occur here?
15. What are the peculiarities of an Anapæstic System?
16. Give a scale of the Jambic Trimeter Acatalectic, and state reasons for the admission of the several feet employed therein.
17. What tokens of mourning for the dead prevailed among the Greeks?
18. Describe the movements of a Chorus.
19. Which passage in this Drama do you consider the finest? which the weakest?
20. State your views of the character of Alcestis—of Admetus.

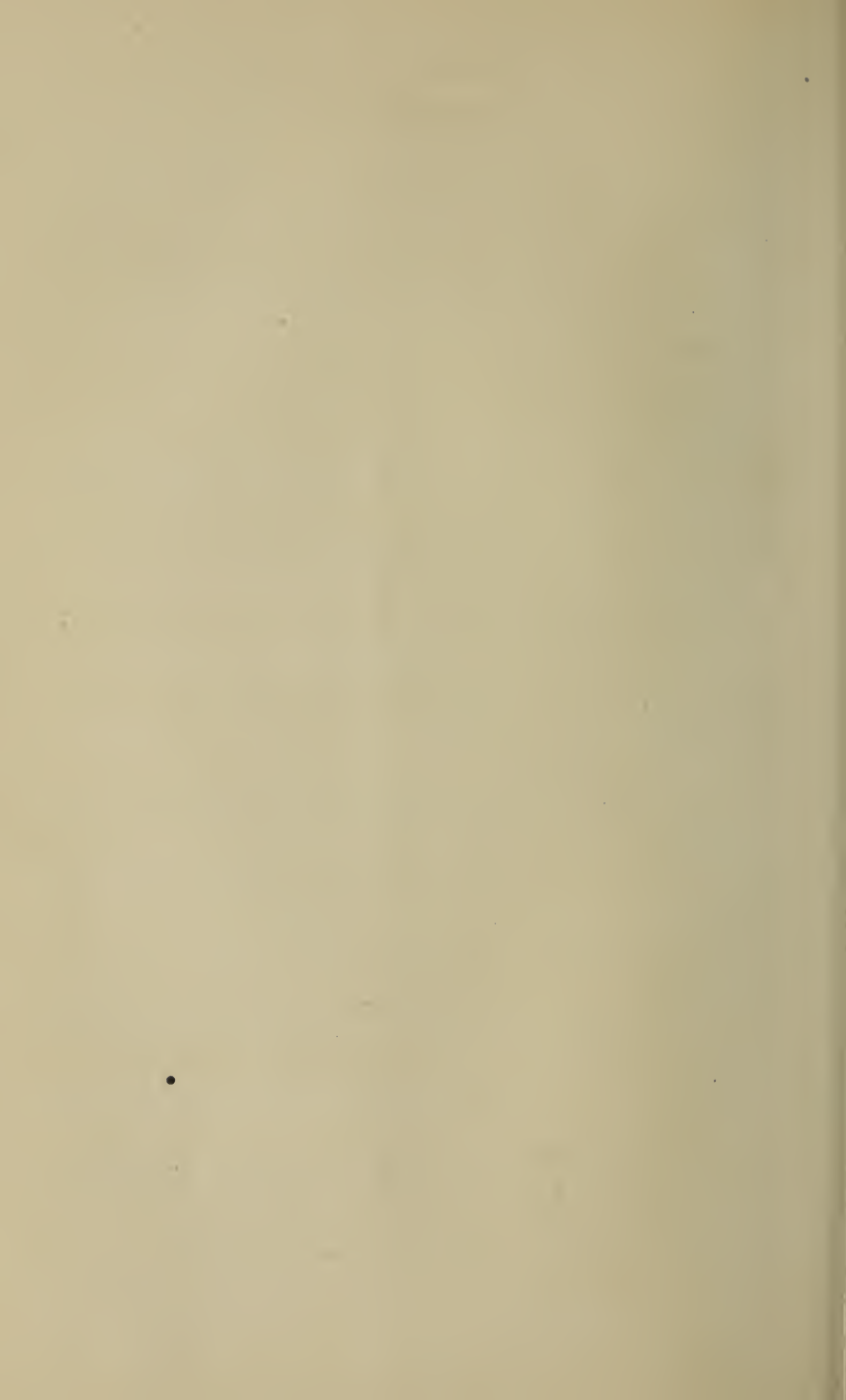
SECOND YEAR.

MATHEMATICS.

EXAMINER—PROFESSOR WILLIAMSON.

1. What is the circular measure of a right angle? Of 45° ? of $14^\circ 15'$; give the number of degrees of which the circular measures are $\frac{\pi}{3}$, $\pi+2$ respectively.
2. Prove De Moivre's theorem for negative indices.
3. Define a *spherical angle*, the *axis* of a circle; the *secondaries* of a great circle.
4. Prove that the sides and angles of the primitive are the supplements of the angles and sides of the polar triangle.
5. Any two sides of a spherical triangle are greater than the third, and the three sides are together less than the circumference of a great circle.
6. The angles of a spherical triangle are greater than two right angles and less than six.
7. Prove $\text{Cos. } A = \frac{\text{Cos. } a - \text{Cos. } b \text{ Cos. } c}{\text{Sin. } b \text{ Sin. } c}$, and thence $\text{Cos. } a = \frac{\text{Cos. } A + \text{Cos. } B \text{ Cos. } C}{\text{Sin. } B \text{ Sin. } C}$.
8. From the latter Expression find $\text{Cos. } A$ in a triangle right angled at C .
9. State Napier's rule of circular parts. What are the circular parts?
10. Given a side and the two adjacent angles of a spherical triangle, find the other parts.
11. When two sides and the contained angle are given, find, by a subsidiary angle, the base when it alone is required, and adapt the Expression to logarithm in computation.
12. How is the local time found by an extra meridional observation of the altitude of the sun?
13. From what points are the *Right Ascension*, *Longitude*, and *Azimuth* of a heavenly body reckoned? What is the inclination of the Equinoctial to the Ecliptic?
14. Explain the effects of Refraction, and Parallax.





SECOND YEAR.

MATHEMATICS.

EXAMINER—PROFESSOR WILLIAMSON.

1. Give the expressions for the last term, sum, and common difference in an Arithmetical Progression; also for the last term, sum, and common ratio in a Geometrical Progression.
2. How far does one travel in gathering up 200 stones placed in a straight line at intervals of two feet distance from each other, supposing he fetches them singly, and lays them in a basket, which is two feet from the first stone.
3. Sum the following series—
 $-2, 6, -18$ &c. to 10 terms.
 $1, 2, 4$ &c. to 10 terms.
 $1, \frac{1}{4}, \frac{1}{16}$ &c. to infinity.

Find the vulgar fraction which is the value of the circulating decimal $2.4\dot{6}\dot{2}$.

4. Prove that $\text{Cos.} = \sqrt{1 - \text{Sin.}^2}$, and $\text{Tan.} = \sqrt{\text{Sec}^2 - 1}$.
 $\text{Sin.} \theta = .8$. Find $\text{Cos.} \theta$, and $\text{Cot.} \theta$.
5. Give the Sines, Cosines and Tangents of 30° , 45° , and 60° .
6. Prove $\text{Cos.}(A - B) = \text{Cos.} A \text{ Cos.} B + \text{Sin.} A \text{ Sin.} B$.
7. Find the values of $\text{Sin.} 2A$ and $\text{Cos.} 2A$ in terms of the Sine and Cosine of the simple angle.
8. Prove $\text{Sin.} A + \text{Sin.} B = 2 \text{ Sin.} \frac{1}{2}(A + B) \text{ Cos.} \frac{1}{2}(A - B)$.
9. State the three cases in which three parts of a plane triangle being given the other parts are required, and the manner in which each case is to be solved.
10. A mill on the bank of a river is 50 feet high, and the angle of elevation of the top is 20° , find the breadth of the river, given $\text{Tan.} 20^\circ = .35$.
11. State and prove the rule for finding the angles at the base, when two sides and the contained angle are the parts given.
12. State the different cases in which the area of a triangle may be required, and give their solutions. Two sides of a triangle are 40 and 65, and they contain an angle of 60° . Find the area.

SECOND YEAR.

CHEMISTRY.

EXAMINER—PROFESSOR DUPUIS, M.A., F.B.S.Ed.

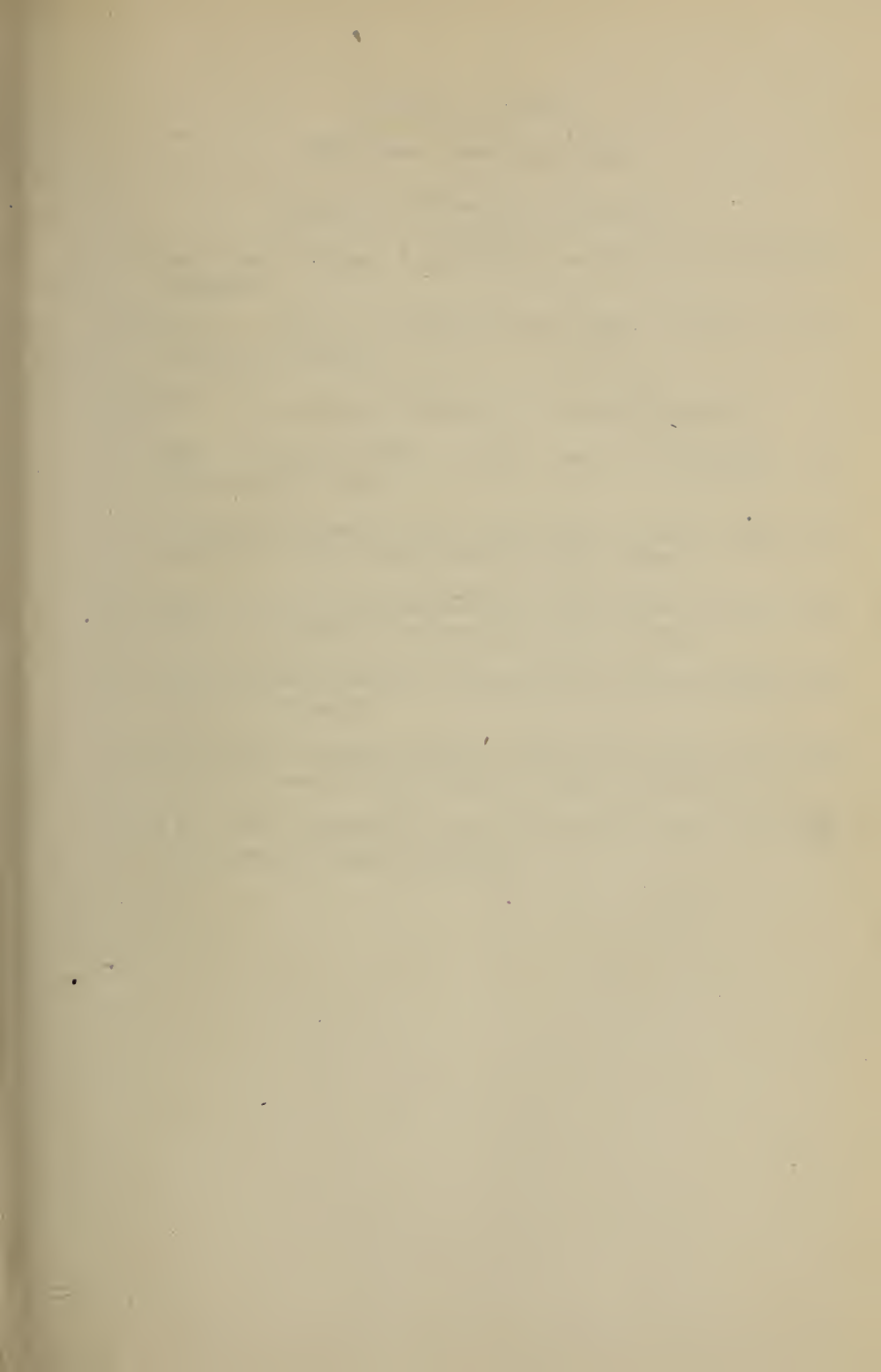
9. (a) Characterize the Iron Group; (b) Describe the leading modifications of Iron, and show how one is changed to another.
10. Describe (a) Mercury, (b) its Chlorides, (c) its Oxides; giving the processes by which the Chlorides and Oxides are formed.
11. (a) What Silver Salts are employed in Photography? (b) State their differences; (c) Describe silver-printing on paper.
12. (a) State the general differences between Organic and Inorganic Compounds; (b) give the action of Heat—Nitric Acid—upon Organic Compounds.
13. What is (a) an Alcohol, (b) an Ether, (c) an Amine? (d) When are they Monatomic?
14. Show how acids are derived from (a) Monatomic, (b) Diatomic Alcohols; and give examples of such derived acids, and other methods for their formation.
15. State any peculiarities about the Cyanides of Iron. Describe three compounds resulting from such peculiarities.
16. Write Chemical formulæ for—(a) Alum, (b) Copperas, (c) Vermillion, (d) "Carbolic Acid," (e) Sugar of Lead, (f) Aniline, (g) Nitro-Glycerine, (h) Urea, (k) Rochelle Salt.

SECOND YEAR.

CHEMISTRY.

EXAMINER—PROFESSOR DUPUIS, M.A., F.B.S.Ed.

1. Define Specific Weight, and state how you would find the sp. wt. of (a) a solid heavier than water, (b) a liquid, (c) a compound gas.
2. Give practical methods of obtaining (a) Hydrogen, (b) Carbon Dioxide, (c) Chlorine, (d) Hydrogen Sulphide, (e) Sulphur Dioxide, (f) Hydrogen Phosphide, illustrating the Chemical changes by symbols.
3. Give the Constitution of the Atmosphere, and, where possible, the sources and uses of its ingredients.
4. State the prominent properties of (a) Nitrogen Monoxide, (b) Animal Charcoal, (c) Sulphur, (d) Carbon Disulphide, (e) Phosphorus, with any applications depending upon these properties.
5. Give methods for obtaining (a) Metallic Chlorides, (b) Oxides, (c) Sulphides, with a general description of them.
6. (a) When and how can you precipitate a salt? (b) Give a list of the commoner salts thus obtained.
7. Describe (a) Sodium, (b) Magnesium, (c) Aluminum, showing how they are obtained, and giving their uses.
8. Give the Chemical composition, common properties and uses of (a) White Arsenic, (b) "Soda," (c) Nitre, (d) Slaked Lime, (e) Red Lead, (f) Crown Glass.



SECOND YEAR.

ENGLISH LITERATURE.

EXAMINER—PROFESSOR FERGUSON.

1. Name the principal Anglo-Saxon writings, and tell their subjects.
2. Give an outline of Chaucer's life, and a sketch of the Canterbury Tales.
3. What was the literary character of the 16th century?
4. Trace the early history of the drama in England, till Shakespeare's time.
5. Classify Shakespeare's plays according to their dates, and state the distinguishing features of the classes.
6. Name the principal poets of the Elizabethan period, and state the subject and character of their works.
7. Give a sketch of Bacon's life; name his several writings, and tell their subjects.
8. Distinguish the three periods of Milton's literary life, and name the works which belong to them respectively.
9. Who wrote "Hudibras," what is its object, and under what circumstances was it written?

SECOND YEAR.

LOGIC.

EXAMINER—PROFESSOR WATSON, M.A.

1. "Logic deals with language." (1) Criticise this definition.
(2) State and explain the correct definition.
2. Explain (1) abstraction and (2) generalization.
3. Show that the reasoning is *explicitly*, what the notion is *implicitly*.
4. (1) On what principle is the quantification of the predicate based? (2) Convert the following propositions (*a*) by Whatley's rules and (*b*) by Hamilton's method:
 No man is perfect.
 The animals are void of reason.
 Some rational beings are fallible.
5. Give the *opposites* of the following proposition:
 Some passions are not wrong.
6. Explain *extension* and *comprehension* of notions, and show, by an example, their relation to each other.
7. Reduce the following syllogism to the first figure:
 Some syllogisms are not regular;
 All syllogisms are important;
 Therefore some important things are not regular.
8. "If E is F, G is H." Give (*a*) the *invalid* and (*b*) the *valid* inferences.
9. What are the two theories of induction?
10. What are the tests of a true conception?
11. If nature were not *uniform*, would science be possible?
 If not, why?

THIRD AND FOURTH YEARS.

LATIN.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Tacitus, Agricola, cap. XVIII.

XVIII. Hunc Britanniae statum, has bellorum vices media jam aestate transgressus Agricola invenit, cum et milites, velut omissa expeditione, ad securitatem, et hostes ad occasionem verterentur. Ordovicum civitas, haud multo ante adventum ejus, alam in finibus suis agentem prope universam obtriverat: eoque initio erecta provincia et quibus bellum volentibus erat, probare exemplum ac recentis legati animum opperiri, cum Agricola—quamquam transacta aestas, sparsi per provinciam numeri, praesumpta apud militem illius anni quies (tarda et contraria bellum incohatur), et plerisque custodiri suspecta potius videbatur—ire obviam discrimini statuit; contractisque legionum vexillis et modica auxiliorum manu, quia in aequum degredi Ordovices non audebant, ipse ante agmen, quo ceteris par animus simili periculo esset, erexit aciem. Ita petita pace ac dedita insula, clarus ac magnus haberi Agricola, quippe cui ingredienti provinciam, quod tempus alii per ostentationem aut officiorum ambitum transigunt, labor et periculum placuisset. Nec Agricola prosperitate rerum in vanitatem usus, expeditionem aut victoriam vocabat victos continuisse: ne laureatis quidem gesta prosecutus est. Sed ipsa dissimulatione famae famam auxit, aestimantibus quanta futuri spe tam magna tacuisset.

1. Parse *vices*, *Ordovicum*, *obtriverat*, *erecta*, *opperiri*, *transacta*, *incohatur*, *custodiri*, *degre**di*, *dedita*, *ingredienti*, *gesta*, *tacuisset*.
2. Derive *bellum*, *securitas*, *ala*, *exemplum*, *aestas*, *quippe*.
3. *Verterentur*. What is its force here?
4. *Tarda*—*plerisque*—*ceteris*—*periculo*—*cui*—*prosperitate*—*expeditionem*—*aestimantibus*. Account for these Cases.
5. *Probare*—*haberi*. What are the subjects?
6. *Custodiri suspecta videbatur*. Is this strictly classic? If not—render it correctly.
7. *Quibus bellum volentibus erat*—*quod tempus transigunt*. Explain these constructions.
8. *Laureatis*. To what does this refer?
9. *Occasio*. Is this as expressive as *καρπός*. If not—state the difference.
10. *Ala*—*legionum vexillis*. Explain fully these military terms.

11. *Victoriam vocabat victos—labor et periculum placuisset.*
What Figures do these illustrate?
12. *Mona.* What is its modern name? Do any traces of the old name still remain?
13. In what year did the transactions described in this chapter occur?
14. Where dwelt the *Ordovices*—the *Iceni*—the *Caledonii*?
15. What peculiar syntactical usages are found in Tacitus?
16. How does he prevent the monotony of the events which he records, especially in his *Annals*, from wearying the reader?
17. What are the chief characteristics of Agricola as a General?
18. Contrast the style of Tacitus with that of Livy.

THIRD AND FOURTH YEARS.

GREEK PROSE.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Plato, Apol. Soc., cap. XVIII.

XVIII. Μὴ θορυβεῖτε, ὦ ἄνδρες Ἀθηναῖοι, ἀλλ' ἐμμείνατέ μοι οἷς ἐδεήθην ὑμῶν, μὴ θορυβεῖν ἐφ' οἷς ἂν λέγω, ἀλλ' ἀκούειν· καὶ γάρ, ὡς ἐγὼ οἶμαι, ὀνήσεσθε ἀκούοντες. μέλλω γὰρ οὖν ἅττα ὑμῖν ἐρεῖν καὶ ἄλλα, ἐφ' οἷς ἴσως βοήσεσθε· ἀλλὰ μηδαμῶς ποιεῖτε τοῦτο. εὖ γὰρ ἴστε, ἐὰν ἐμὲ ἀποκτείνητε τοιοῦτον ὄντα, οἷον ἐγὼ λέγω, οὐκ ἐμὲ μείζω βλάψετε ἢ ὑμᾶς αὐτοὺς· ἐμὲ μὲν γὰρ οὐδὲν ἂν βλάψειεν οὔτε Μέλητος οὔτε Ἄνυτος· οὐδὲ γὰρ ἂν δύναιτο· οὐ γὰρ οἶομαι θεμιτὸν εἶναι ἀμείνονι ἀνδρὶ ὑπὸ χείρονος βλάπτεσθαι. ἀποκτείνειε μὲντ' ἂν ἴσως ἢ ἐξελάσειεν ἢ ἀτιμώσειεν. ἀλλὰ ταῦτα οὗτος ἴσως οἶεται καὶ ἄλλος τις που μεγάλα κακά, ἐγὼ δ' οὐκ οἶομαι, ἀλλὰ πολὺ μᾶλλον ποιεῖν ἢ οὗτος νυνὶ ποιεῖ, ἄνδρα ἀδίκως ἐπιχειρεῖν ἀποκτινύναι. νῦν οὖν, ὦ ἄνδρες Ἀθηναῖοι, πολλοῦ δέω ἐγὼ ὑπὲρ ἱμαντοῦ ἀπολογεῖσθαι, ὥς τις ἂν οἶοιτο, ἀλλ' ὑπὲρ ὑμῶν, μὴ τι ἐξαμάρτητε περὶ τὴν τοῦ θεοῦ δόσιν ὑμῖν ἐμοῦ καταψηφισάμενοι. ἐὰν γὰρ ἐμὲ ἀποκτείνητε, οὐ ῥαδίως ἄλλον τοιοῦτον εὐρήσετε, ἀτεχνῶς, εἰ καὶ γελοιότερον εἰπεῖν, προσκείμενον τῇ πόλει ὑπὸ τοῦ θεοῦ, ὥσπερ ἱππῳ μεγάλῳ μὲν καὶ γενναίῳ, ὑπὸ μεγέθους δὲ νωθεστέρω καὶ δεομένῳ ἐγείρεσθαι ὑπὸ μύωπός τινος·

1. Parse *θορυβεῖτε*, *ἐμμείνατε*, *ἐδεήθην*, *ὀνήσεσθε*, *ἅττα*, *ἐρεῖν*, *βοήσεσθε*, *ἴστε*, *μείζω*, *βλάψειεν*, *δύναιτο*, *ἀποκτείνειε*, *ἐξελάσειεν*, *ἀτιμώσειεν*, *ἀποκτινύναι*, *δέω*, *οἶοιτο*, *ἐξαμάρτητε*, *μεγέθους*, *ἐγείρεσθαι*.
2. Derive γὰρ, οὖν, θεμιτός, χείρων, νυνί, νῦν, μύωψ.
3. οἷς (ἐδεήθην)—οἷς (ἂν λέγω)—μείζω—πολλοῦ—(δόσιν) ὑμῖν—ἐμοῦ (καταψηφισάμενοι). Account for these Cases.
4. *θορυβεῖτε*—*ἐμμείνατε*. Account for these Tenses.
5. *θεμιτόν*.....*βλάπτεσθαι*. Render this by another construction equally classic.
6. *που*. What is its force here?
7. *πολὺ μᾶλλον*. Supply the ellipsis.
8. *ἄλλος*—*μᾶλλον*—*ἀνδρί*. What was the original form of these? Account for the change.
9. How are Prohibitions or Negative Commands expressed in Greek?
10. *ἀτιμία*. What were the various forms of this?

11. Explain the following legal terms, viz. : ὁ φύγων—ὁ διώκων—
ἀντωμοσία—ἀναβιβάσασθαι—γραφὴν γράψασθαί τινα—ἐρήμη
(δίκη).
12. How far may this Treatise be regarded as the actual defence
made by Socrates ?
13. Into what parts is the Apology divided ?
14. What were the counts of the indictment preferred against
Socrates ?
15. What constituted the chief difficulties against which he had
to contend in his defence ?
16. What was the *bearing* of Socrates before his judges ? How
did it affect the final result ?
17. (a) What public offices had he held ?
(b) In what battles did he take part ?
18. ἴσως αν ουν δοξειεν ατοπον ειναι, οτι δη εγω ιδια μεν ταυτα
ξυμβουλευω περιων και πολυπραγμωνω, δημοσια δε ου τολμω
αναβαινων εις το πληθος το υμετερον ξυμβουλευειν τη πολει.
τουτου δε αιτιον εστιν ο υμεις εμου πολλακις ακηκοατε πολλαχου
λεγοντος, οτι μοι θειον τι και δαιμονιον γιγνεται φωνη, ο δη και
εν τη γραφη επικωμωδων Μελητος εγραψατο. Supply the
proper breathings and accents.

THIRD AND FOURTH YEARS.

GREEK POETRY.

EXAMINER—PROFESSOR MACKERRAS, M.A.

Translate—Soph. *Antigone*, vv. 249–270.

ΦΤ. οὐκ οἶδ'· ἐκεῖ γὰρ οὔτε του γενῆδος ἦν
 πλήγμ', οὐ δικέλλης ἐκβολή· στύφλος δὲ γῆ 250
 καὶ χέρσος, ἄρρῶξ οὐδ' ἐπημαξευμένη
 τροχοῖσιν, ἀλλ' ἄσημος οὐργάτης τις ἦν,
 ὅπως δ' ὁ πρῶτος ἡμῖν ἡμεροσκόπος
 δείκνυσι, πᾶσι θαῦμα δυσχερὲς παρῆν.
 ὁ μὲν γὰρ ἠφάνιστο, τυμβήρης μὲν οὐ, 255
 λεπτή δ' ἄγος φεύγοντος ὥς ἐπῆν κόνις.
 σημεία δ' οὔτε θηρὸς οὔτε του κυνῶν
 ἐλθόντος, οὐ σπάσαντος ἐξεφαίνετο.
 λόγοι δ' ἐν ἀλλήλοισιν ἐρρόθουν κακοί,
 φύλαξ ἐλέγχων φύλακα, κἂν ἐγίνετο 260
 πληγῇ τελευτῶσ', οὐδ' ὁ κωλύσων παρῆν.
 εἷς γάρ τις ἦν ἕκαστος οὐξεργασμένος,
 κούδεις ἐναργῆς, ἀλλ' ἔφευγε πᾶς τὸ μή,
 ἦμεν δ' ἔτοιμοι καὶ μύδρους αἶρειν χερσίν,
 καὶ πῦρ διέρπειν, καὶ θεοὺς ὀρκωμοτεῖν 265
 τὸ μήτε δρᾶσαι μήτε τῷ ξυνειδέναι
 τὸ πρᾶγμα βουλευσάντι μήτ' εἰργασμένῳ.
 τέλος δ' ὅτ' οὐδὲν ἦν ἐρευνῶσιν πλέον,
 λέγει τις εἷς, ὃς πάντας ἐς πέδον κᾶρα
 νεῦσαι φόβῳ προὔτρεψεν. 270

1. Parse γενῆδος, στύφλος, ἐπημαξευμένη, δείκνυσι, ἠφάνιστο, ἐπῆν, του, σπάσαντος, ἐξεφαίνετο, ἐρρόθουν, ἐλέγχων, τελευτῶσα, οὐξεργασμένος, ἔφευγε, ἦμεν, δρᾶσαι, ἐρευνῶσιν, προὔτρεψεν.
2. Derive πλήγμα, δικέλλης, ἄρρῶξ, ἡμεροσκόπος, ὀρκωμοτεῖν.
3. Give Latin words containing the roots of τροχός, δείκνυμι, κόνις, θήρ, κύων, πῦρ, κᾶρα.
4. ὥς. Account for its accent.

5. *φεύγοντος—φύλαξ—τέλος—ἐρευνῶσιν.* Account for these Cases.
6. *ἔφευγε πᾶς τὸ μῆ.* Complete the construction.
7. Explain the allusion in v. 256.
8. To what usage is reference made in vv. 264, 265? Among what other nations did it prevail?
9. Point out an instance of the Porsonian Pause in this passage.
10. Who constituted the Chorus in this tragedy?
11. Did they fulfil their high functions? State concisely the arguments which may be advanced *pro* and *con*.
12. When did Sophocles first enter the lists as a competitor? When was this tragedy first brought out?
13. Give an outline of the plot.
14. When was Sophocles born? When did he die? A biography of him would sketch the history of, what?
15. Name his leading contemporaries, (1) literary, (2) political.
16. What improvements of the Drama are attributed to him?
17. Contrast Sophocles with (1) Æschylus, (2) Euripides.
18. What was the origin of the Greek Drama?

THIRD YEAR.

NATURAL PHILOSOPHY.

EXAMINER—PROFESSOR WILLIAMSON.

1. State the three laws of motion.
2. Explain the terms, *velocity*, *moving force*, *accelerating force*, *momentum*.
3. Prove that, when the force is constant, $s = ft^2$, and $v^2 = 2fs$.
4. Upon a steeple 150 feet high is a spire of 40 feet; at the same instant, that a stone is let fall from the top of the steeple, another is projected vertically upwards from the bottom of it with a velocity sufficient to carry it to the top of the spire, at what point will these meet?
5. The velocity acquired by falling down an arc of a circle is equal to that acquired by falling down its versed sine.
6. Determine the velocities after impact of two imperfectly elastic bodies impinging directly on each other, and thence deduce the velocity after impact of two inelastic bodies.
7. What is the pressure on a groove in a circular arc down which a ball rolls? Explain the action of the *Centrifugal Railway*.
8. Define a *simple*; a *physical* pendulum; the *Centre of Oscillation*.
9. Find the Equation to the path of a projectile.
10. How must a cone be cut by a plane, so that the common section of the plane and the surface of the cone may be a Parabola? an Ellipse? a Hyperbola? State what are the distinguishing properties of these three curves, and give their Equations.
11. Define a *function* of a quantity. Do functions always vary uniformly as the independent variable does?
12. Give the rules for differentiating such functions as x^n ; $\frac{x}{y}$; xy , and differentiate $ax^3 + 2$, xy^2 , $\frac{x}{y}$, $\frac{1}{(a+x^2)^n}$
13. $x + y = a$ and $x^2y^3 = \text{maximum}$, find x and y .
14. Give the expressions for the *subtangent*; the *subnormal*; the *differential of the arc* in terms of the sine, and the *differential of the area* of any curve. From the last find the area of the common parabola.

THIRD YEAR.

NATURAL PHILOSOPHY.

EXAMINER—PROFESSOR WILLIAMSON.

1. What is the moment of a force with regard to a point ? to a plane ?
2. Resolve a force represented by 20 into two others whose sum is 22, and which contain an angle of 60° .
3. If three forces meet at a point and act in different planes, what line will represent their resultant ?
4. If 1, 2, 3, 4 lbs. be placed at equal distances along a line without weight, and 4 feet in length, find the point on which the whole will balance.
5. Where is the centre of gravity of a triangle ; of a pyramid ; of the surface of a cone ?
6. Enumerate the different kinds of levers, and prove, that when a lever is in equilibrium $P:W$ inversely as the perpendiculars from the fulcrum on the directions in which they act.
7. Two weights P and Q are connected with the extremities of a straight lever, of which the arms are as 3 to 5. P acts at an angle of 60° , and Q at an of 45° : find $P:Q$.
8. State the principle of virtual velocities, and prove it in the case of the inclined plane, when the power acts parallel to the plane.
9. State $P:W$ in the 1st kind of Burtons, and show that there will be equilibrium, if the power, weight, and each pulley, are all equally heavy.
10. What are the two conditions of equilibrium in liquids ? What is the condition in gases ?
11. Give the general expression for the pressure on any surface immersed in a liquid.
12. A rectangle is described about a parabola, and the whole figure is immersed vertically in a liquid, so that the vertex coincides with the level of the liquid, compare the pressures on the parabola and the rectangle.
13. State Boyle and Mariotte's law.
14. State what is meant by the *elastic tension* of gases, and how heat affects it.

THIRD YEAR.

METAPHYSICS (FIRST PAPER).

EXAMINER—PROFESSOR WATSON, M.A.

1. State (1) the *scientific* and (2) the *philosophical* view of the world.
2. Show why the *organic* world is more stable than the *inorganic*.
3. Criticise the Observing Consciousness.
4. (1) What is Hume's view of Causality? (2) How does Kant reply to it?
5. What objection may be made to the division of Thought into *faculties*?
6. In what sense may it be said that the complete material of thought is contained in Sensation?
7. State and criticise Mill's attempt to construct the external world out of sensation and associations of sensation.
8. How does immediate sensation become *perception*?
9. Show that Representation is an advance beyond Perception.
10. Show that associations of ideas are not properly *laws*.
11. Distinguish between remembrance and imagination.

THIRD YEAR.

METAPHYSICS (SECOND PAPER).

EXAMINER—PROFESSOR WATSON, M.A.

1. What is the general difference between the Greek and the modern State?
2. (1) On what grounds does Grote object to Plato's view of the Sophists? (2) Are his objections valid?
3. State (1) Socrates' *method* and (2) the nature of his *irony*.
4. "All virtue is knowledge." Explain this saying of Socrates.
5. Compare Socrates' "dæmon" with conscience.
6. (1) Sketch Plato's ideal state. (2) Show why he either (a) rejected or (b) limited Art.
7. (1) What did Plato mean by Justice? (2) Is this the meaning now attached to the word?
8. What is the imperfection in Plato's conception of the relation of the individual to the state?
9. State and criticise Aristotle's view of virtue.

THIRD YEAR.

FRENCH LANGUAGE.

EXAMINER—PROFESSOR FERGUSON.

1. State the chief causes which effected the deterioration of the Latin.
2. When did such words as, *compassio, eternalis, justificare, pausare*, come into general use?
3. State the several causes which led to the elimination of old Latin words, and the adoption of new words in the Romance languages.
4. Explain the formation of the future indicative in the Romance languages, and of the imperfect in the French verb.
5. Translate —

Notre dictateur devant les rangs s'avance,
Demande a votre prince un moment de silence ;
Et l'ayant obtenu : "Que faisons-nous, Romains ?
Dit-il, et quel demon nous fait venir aux mains ?
Souffrons que la raison eclaire enfin nos ames.
Nous sommes vos voisins, nos filles sont vos femmes ;
Et l'hymen nous a joints par tant et tant de nœuds
Qu'il est peu de nos fils qui ne soient vos neveux.
Nous ne sommes qu'un sang et qu'un peuple en deux villes ;
Pourquoi nous déchirer par des guerres civiles,
Ou la mort des vaincus affaiblit les vainqueurs,
Et le plus beau triomphe est arrose de pleurs ?
Nos ennemis communs attendent avec joie
Qu'un des partis defeat leur donne l'autre en proie,
Lasse, demi-rompu, vainqueur, mais, pour tout fruit,
Denue d'un secours par lui-meme detruit.
Ils ont assez longtemps joui de nos divorces ;
Contre eux dorenavant joignons toutes nos forces,
Et noyons dans l'oubli ces petits differends
Qui de si bons guerriers font de mauvais parents.
Que si l'ambition de commander aux autres
Fait marcher aujourd'hui vos troupes et les notres,
Pourvu qu'a moins de sang nous voulions l'apaiser,
Elle nous unira, loin de nous diviser.
Nommons des combattants pour la cause commune,
Que chaque peuple aux siens attache sa fortune ;
Et, suivant ce que d'eux ordonnera le sort,
Que le parti plus faible obeisse au plus fort ;
Mais sans indignite pour des guerriers si braves ;
Qu'ils deviennent sujets sans devenir esclaves,
Sans honte, sans tribut, et sans autre rigueur
Que de suivre en tous lieux les drapeaux du vainqueur :
Ainsi nos deux Etats ne feront qu'un empire."

6. Parse *eclaire, noyons, deviennent*, and explain construction of *dechirer, diviser* and *suivre*.

THIRD YEAR.

BOTANY.

EXAMINER—PROFESSOR DUPUIS, M.A., F.B.S.Ed.

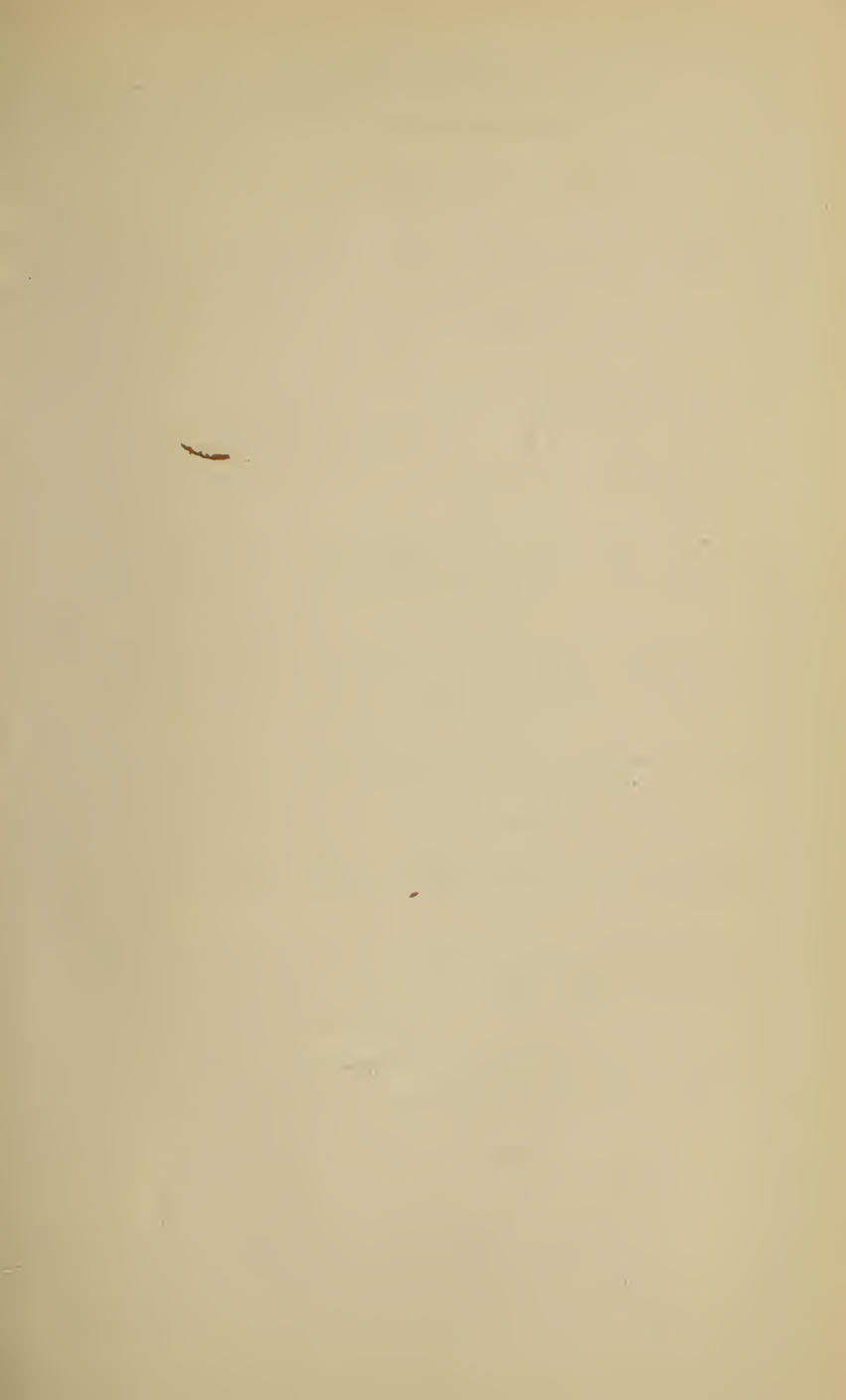
1. (*a*) What is Botany?—(*b*) How is it Divided?
2. (*a*) What are subterranean stems? (*b*) How are they distinguished,—(*c*) how classified?
3. Describe leaves in regard to (*a*) their parts, (*b*) their Phyllotaxis, (*c*) their uses, and explain why they fall.
4. (*a*) Describe the normal flower, and (*b*) state the morphological laws prevailing among flowers.
5. Define (*a*) Complete—(*b*) Perfect—(*c*) Regular—(*d*) Symmetrical as applied to flowers.
6. Give (*a*) the causes of deviation from the normal flower, (*b*) the effects of cohesion.
7. Give (*a*) the origin,—(*b*) the parts,—(*c*) the appendages of the seed.
8. Classify the dehiscent fruits.
9. Give (*a*) the structure—(*b*) modified forms—(*c*) most common contents of cells.
10. Describe fully (*a*) the structure of the exogenous stem—(*b*) the differences between *Exogens* and *Endogens*.
11. Divide plants into classes and state how they are further divided.
12. Classify the following plants:—Buttercup—Hollyhock—Pea—Pumpkin—Mullein—Oak—Willow—Pine.

THIRD YEAR.

ZOOLOGY.

EXAMINER—PROFESSOR DUPUIS, M. A., F.B.S.Ed.

1. Classify the functions of animal life and examine whether they are *distinctive* of animals.
2. (a) Describe the single eye;—(b) To what is it reduced in the lower animals?—(c) What is the nictitating membrane and where is it found?
3. State the uses of (a) the muscles;—(b) the bones;—(c) Explain the terms Digitigrade—Plantigrade.
4. Describe the hard parts of (a) Insecta,—(b) Radiata.
5. Describe the means of progressive movement in (a) the Star fish,—(b) the Leech,—(c) the Earthworm,—(d) the Fish.
6. (a) Classify the operations of nutrition;—(b) describe the *apparatus* and (c) give the *kinds* of circulation.
7. Give the different stages in the history of (a) the *Tenia*,—(b) the *Medusa*,—(c) the *Oestrus*,—(d) the *Frog*.
8. Characterize (a) Vertebrata,—(b) Mammalia—(c) Rodentia, and name five common animals with such characters.
9. Characterize the class *Pisces* and divide it into orders.
10. Give the characters of (a) Hymenoptera,—(b) Diptera;—(c) Distinguish between *Insecta* and *Arachnida*.
11. Divide the *Radiata* into classes, giving an example of each.
12. Classify by order, class, subkingdom, the following animals : (a) Wolf,—(b) Sheep,—(c) Hawk,—(d) Chameleon,—(e) Anchovy,—(f) Cricket,—(g) Earthworm.



FOURTH YEAR.

NATURAL PHILOSOPHY.

EXAMINER—PROFESSOR WILLIAMSON.

1. What led to the discovery of the velocity of light by Rømer? How was it afterwards confirmed by Bradley?
2. What is the breadth of the waves of violet light? Of red light? How many of the violet and red, respectively, enter the eye in a second?
3. How does the shadow of an object on a screen, when the source of light is a luminous point, differ from that produced by a luminous surface?
4. Why does rock salt become opaque when it is crushed?
5. To what optical instrument is the eye to be referred? What is necessary for distinct vision by the eye? How is it proved that the eye requires adaptation to the different distances of the objects which it views?
6. By what construction would you draw the image of an object reflected from a plane mirror? What is the velocity of the image compared with that of the mirror when the latter moves in a plane parallel to itself?
7. State the uses of the *Goniometer*, of the *Helio-stat*, of parabolic mirrors, and Fresnel's Lenses in lighthouses.
8. What ratio determines the critical angle in refraction?
9. Shew that a ray of light, entering a medium of which the index of refraction is 1.414, cannot have a greater deviation than 45° .
10. State the deviation in a triangular prism, 1st, when the angle of incidence is considerable; 2nd, when it is small. How must the ray pass through the prism so that the deviation may be a minimum?
11. Define the *axis*, *principal focus*, *conjugate foci*, *Optical Centre*, *centre of curvature*, *aperture*, *secondary axes*, in Spherical Mirrors and Lenses.
12. Prove that in a Convexo Concave Lens—
$$\frac{1}{d} - \frac{1}{D} = (m - 1) \left(\frac{1}{r} - \frac{1}{r'} \right) = \frac{1}{F}.$$
13. Prove that in Spherical Mirrors $FO^2 = FQ.Fq$,
and in Spherical Lenses $FO^2 = F'Q.Fq$,
 F' in the latter case being the principal focus on the other side from q .

14. The first surface of a lens of crown glass ($m=1.53$) is convex, and has a curvature of 3 inches radius; find the radius of curvature of the other face, and the kind of the lens, when rays coming from a point 10 feet in front of the lens are brought to a focus 2 feet behind it.
15. When is a combination of lenses said to be *achromatic*? When *aplanatic*? Whence arose the mistake of Newton in thinking that an achromatic combination was impossible?
16. Define *simple*, *complementary*, *accidental* or *subjective* colours.
17. State how the magnifying power is determined in the simple microscope; in the compound microscope; in refracting telescopes.
18. Explain briefly what is meant by the *interference*, *diffraction*, *double refraction*, *polarization*, of rays of light. What is the cause of the colours of thin films and plates?

FOURTH YEAR.

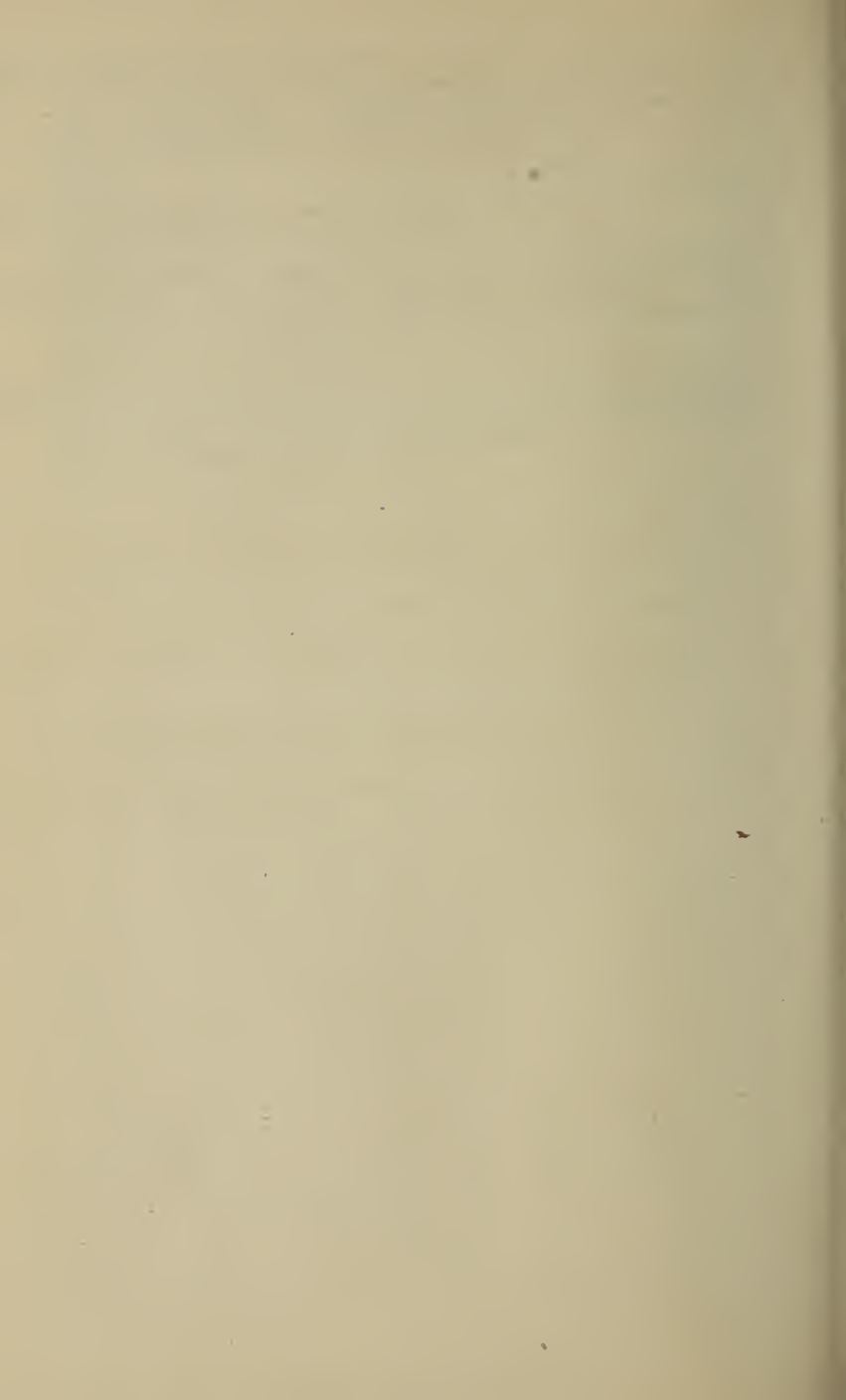
NATURAL PHILOSOPHY.

EXAMINER—PROFESSOR WILLIAMSON.

1. If a body weighs 10 lbs. 9 ozs. at one end of a false balance, and 12 lbs. 4 ozs. at the other, what is the real weight?
2. If g be the force of gravity at the surface, what is its amount two miles above the surface of the earth, the earth's radius being taken to be 3956 miles? If the central force varies inversely as the square of the distance, what must be the nature of the curve described by a revolving body?
3. By what property are liquids distinguished from gases?
4. What is meant by the *hydrostatic paradox*?
5. A Cone and Cylinder of the same base and height, each filled with water, are placed on a table, what are the pressures on their bases? What on the table?
6. Upon what principle does the flow in Artesian wells depend? In what ratio are the heights of two different liquids in the branches of a bent tube?
7. State the law of Archimedes with regard to bodies immersed, or floating in liquids.
8. Explain the term *Metacentre*. What is the condition of stable flotation?
9. Given W the weight of a body *in vacuo*, w its weight in water, what is its specific gravity?
The Crown of Hiero, with an equal weight of gold, and an equal weight of silver, were all weighed in water. The Crown was found to lose $\frac{1}{14}$, the gold $\frac{4}{77}$, and the silver $\frac{2}{21}$ of the common weight. In what proportion were the gold and silver mixed in the Crown?
10. Explain briefly what is meant by *Capillary Attraction*, *Endosmose*, and *Exosmose*.
11. A cylindrical vessel filled with fluid rests with its base on a horizontal plane: find the velocity of efflux from an orifice below the level of the fluid, and the position of the orifice, so that the range on the plane may be the greatest possible.
12. What are centrifugal pumps? Explain the action of the Hydraulic Ram.

13. In what direction are the waves of sound propagated, and what is its velocity, in air, per second? Is its velocity the same in all media? A reflecting surface is 560 feet distant, in what time will a word begin to be repeated by the Echo?
14. In three seconds, a stone dropped into a pit, is heard to strike the bottom: how deep is it?
15. Find the density of air in the receiver of an air pump after n strokes of the piston. Find also the density in the receiver of a Condenser, R and B being the capacities of the receivers and barrels.
16. If, in an air pump which has only one barrel, the density after five turns is to the original density as 7:44, compare the capacities of the receiver and barrel.



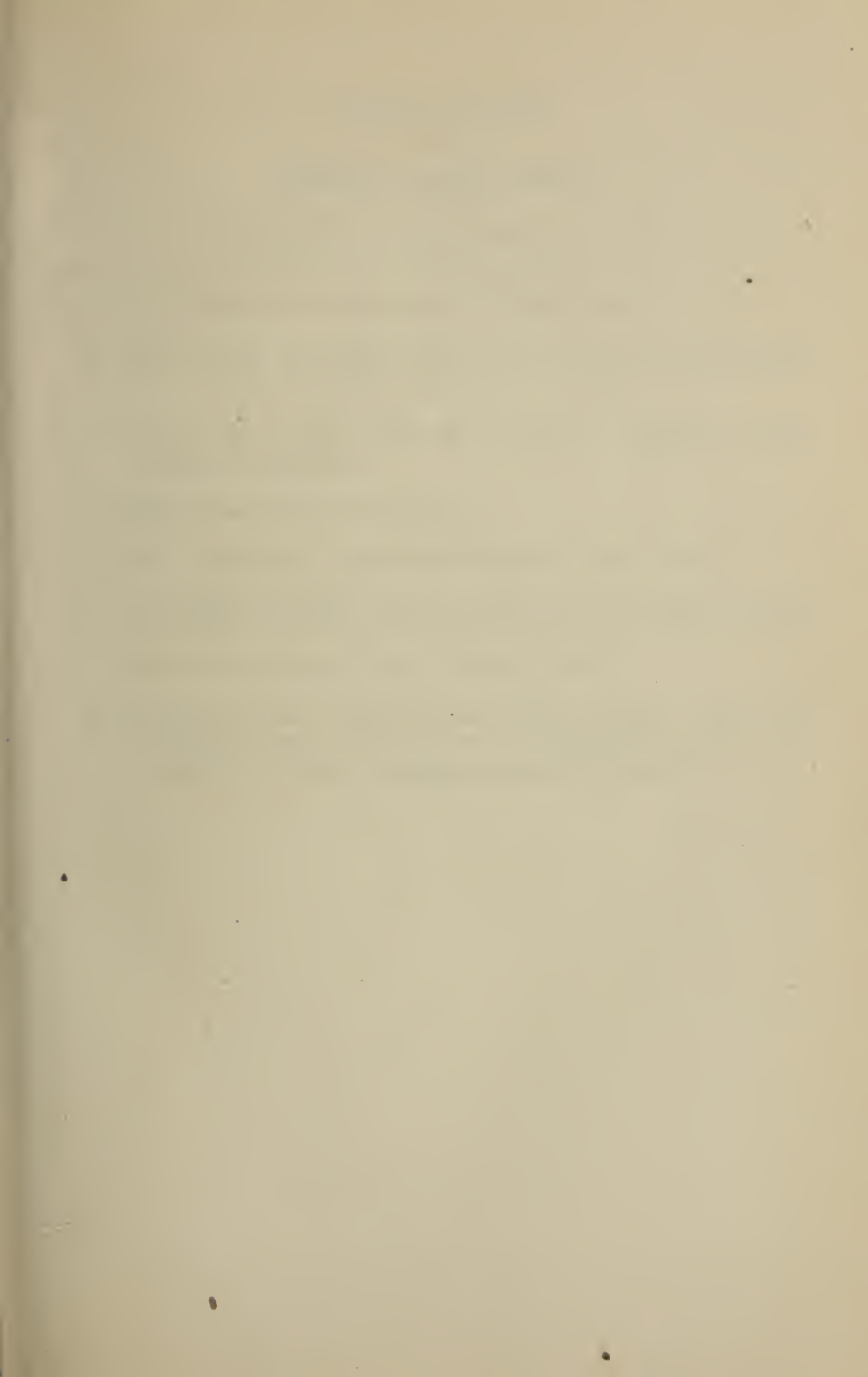


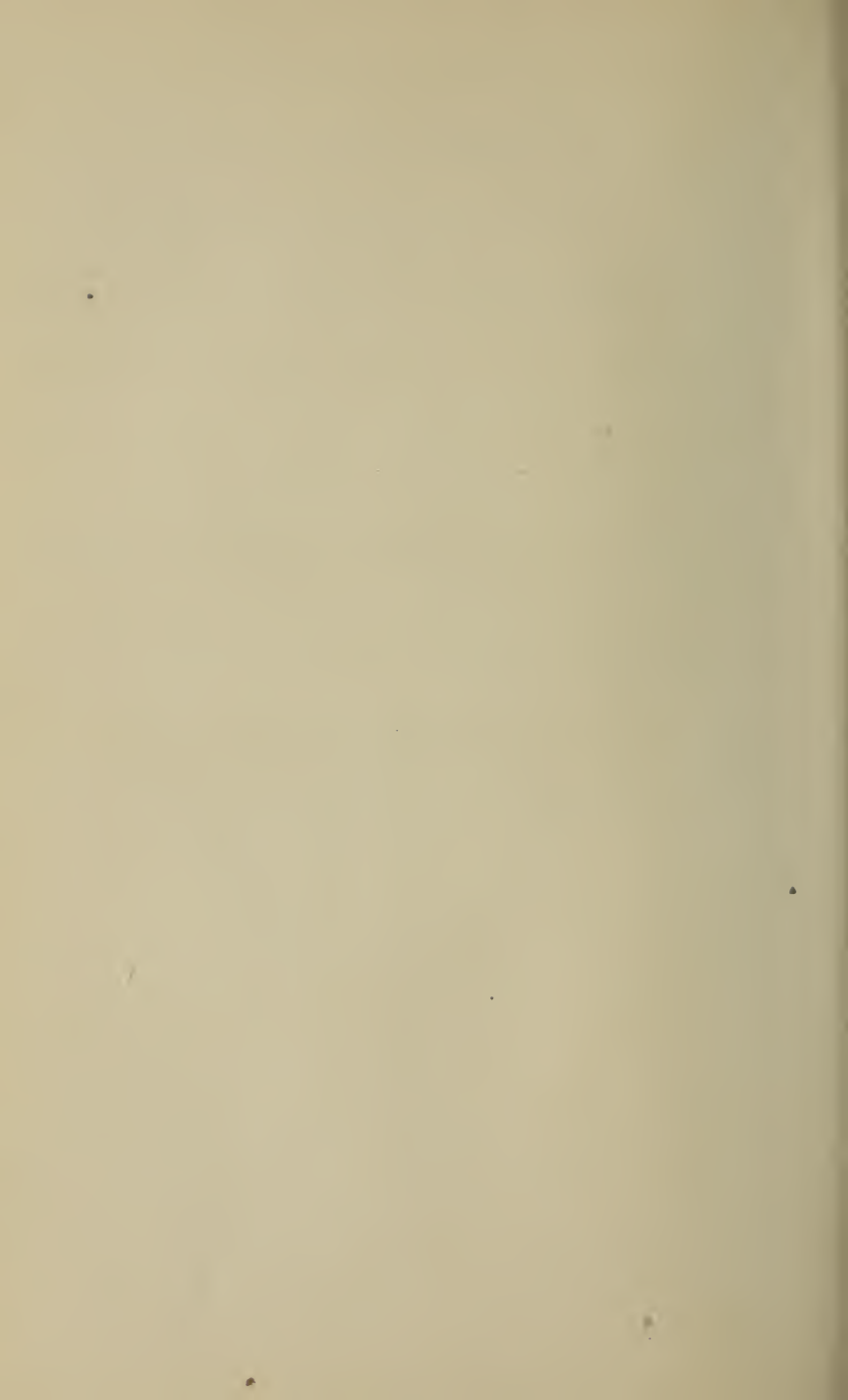
FOURTH YEAR.

ETHICS (First Paper.)

EXAMINER—PROFESSOR WATSON, M.A.

1. State briefly the three stages of *self-consciousness*, and their relation to each other.
2. Distinguish between *appetite* in man and in the lower animals.
3. State Adam Smith's theory.
4. What is the ethical value of *sympathy*?
5. (1) What view of *motives* do Libertarians and Necessarians respectively hold? (2) Which party is *logically* correct?
6. What is the general imperfection of all Moral-Sense theories?
7. Is there any objection to be made to Kant's negative morality?
8. How may a system of positive morality be formed?
9. (1) What is meant by *Utilitarianism*? (2) Why is it objectionable?





FOURTH YEAR.

ETHICS (Second Paper.)

EXAMINER—PROFESSOR WATSON, M. A.

1. On what notion is the science of Right based ?
2. Show briefly how this notion gives rise to (a) property, (b) contract, (c) civil injury, and (d) crime.
3. What is the relative value of the *sign* as expressive of the seizure of property ?
4. How far are rights alienable ?
5. Show that Right is *logically* dependent upon Duty.
6. Distinguish between Conscience and the Practical Reason.
7. What is the ultimate test of Responsibility ?
8. (1) What is the ethical value of the *family* ? (2) Is the relation of the individual to the family as perfect as his relation to (a) the community, and (b) the state ?

THE HISTORY OF

THE CITY OF BOSTON

FROM THE FIRST SETTLEMENT TO THE PRESENT TIME

BY SAMUEL JOHNSON

IN TWO VOLUMES

LONDON: Printed by J. JOHNSON, in Pall-mall.

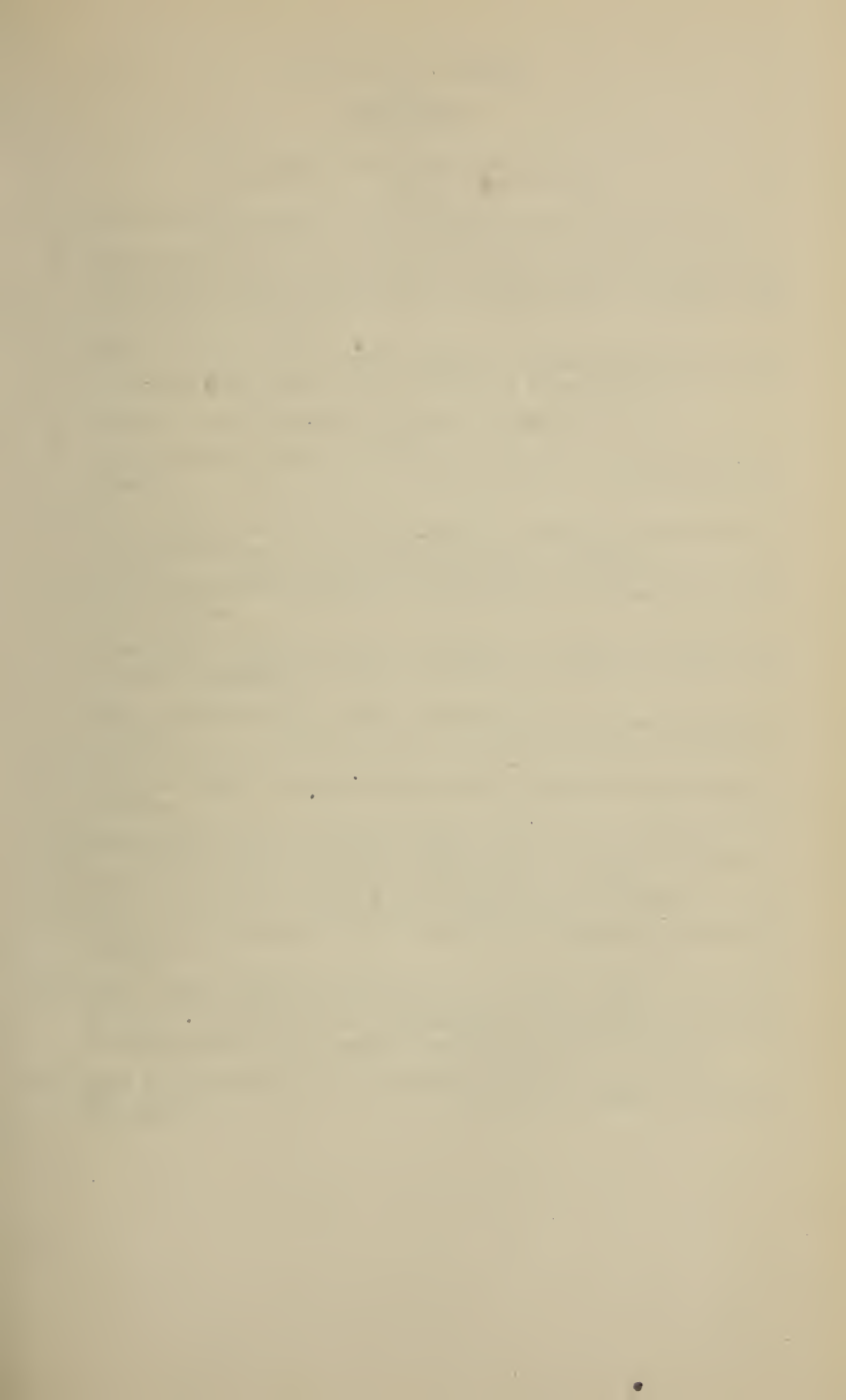
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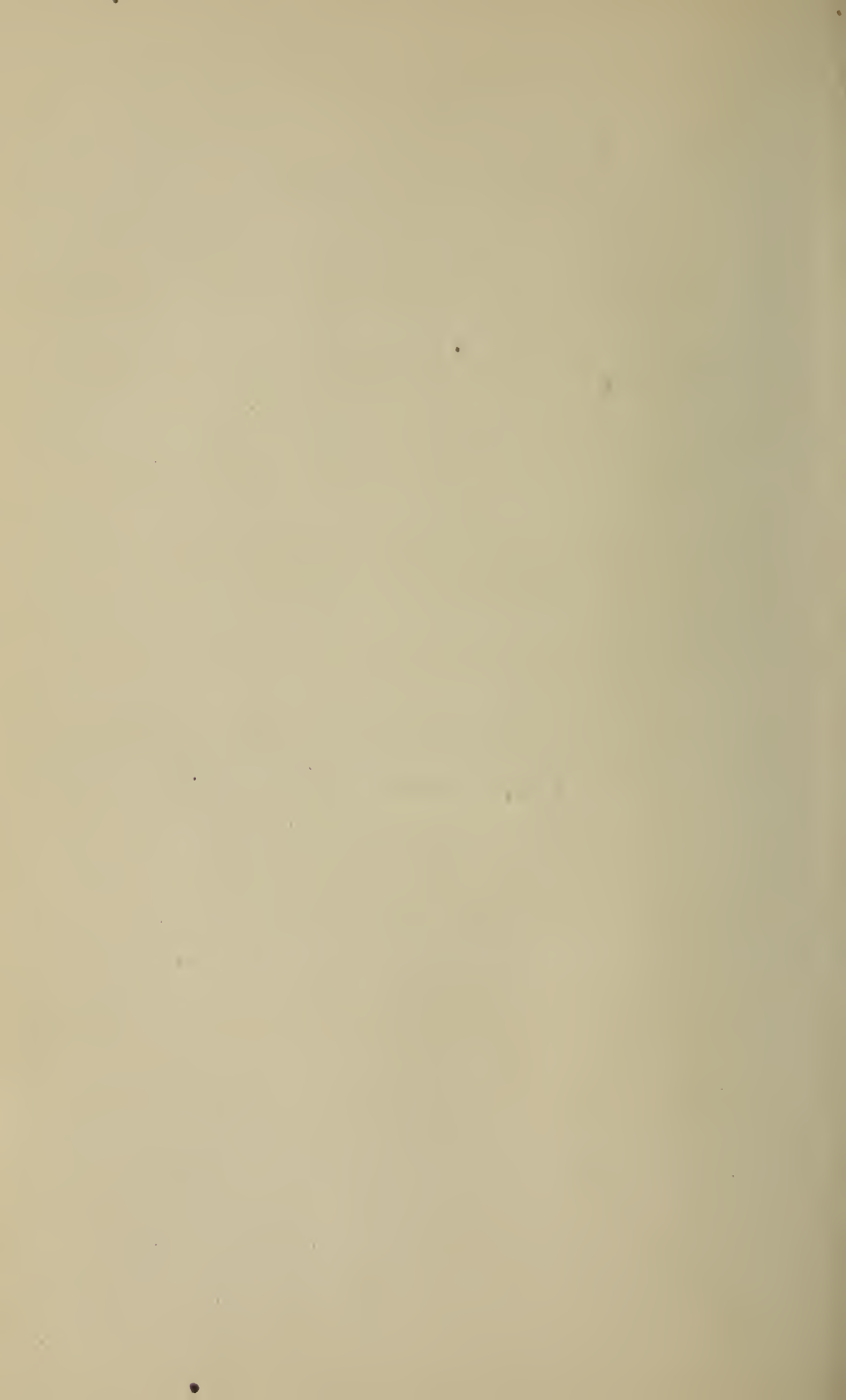
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FOURTH YEAR.

HISTORY.

EXAMINER—PROFESSOR FERGUSON.

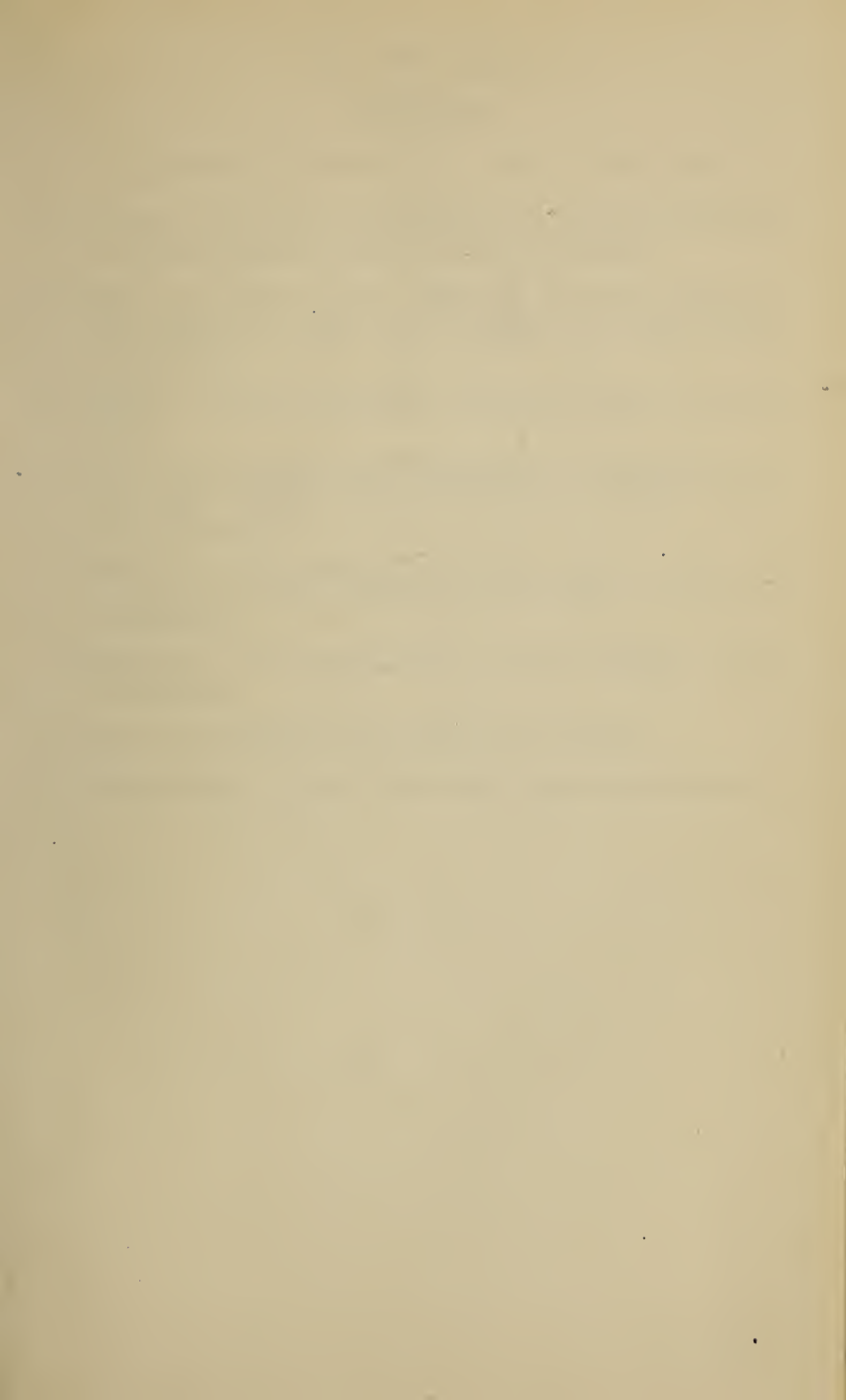
1. Point out the extent of the Pelasgic element in Greece.
2. State the several circumstances which, notwithstanding the jealousies that separated the Greek States, marked the unity of the Greeks.
3. What charges were made against Pericles as to the use which he had made of the Athenian Supremacy?
4. Describe the Judicial Institutions of Athens.
5. Point out the growth of Military and Naval Armaments in Greece.
6. Give a short sketch of the relations existing between Rome and the Etruscan Power till the fall of the latter.
7. Describe the circumstances of the several secessions to the *Sacra Mons*.
8. Trace the progress of the conquests by Rome within the Italian Peninsula.
9. What were the terms of the Lucinio-Sextian Laws, and their results?
10. State the chief internal causes of the decline of the Roman Empire.
11. Distinguish between allodial lands and benefices in France.
12. Trace the growth of the Royal Judiciary in France.
13. State the occasion of the Council of Clarendon, and its results.
14. State, so far as our information goes, the earlier mode of election to the House of Commons, and when was the first occasion of a pecuniary qualification for electors.
15. State the growth of the idea of Ministerial responsibility in England.

FOURTH YEAR.

MINERALOGY.

EXAMINER—PROFESSOR DUPUIS, M.A., F.B.S.Ed.

1. (*a*) Define a mineral, and (*b*) state the general differences between minerals and organic beings, and hence the difference in our methods of distinguishing them.
2. (*a*) What are the characteristics of crystals?—(*b*) How are they formed?—(*c*) What distinguishes them as fundamental or secondary?—(*d*) Define the *kinds* of secondary crystals.
3. Give (*a*) the kinds of lustre—(*b*) the scale of hardness—(*c*) the odours, stating how they are brought out.
4. How would you test a mineral by heat, and what might it do?
5. (*a*) Describe specular ore—(*b*) Explain the process of smelting it, and mention the principle impurities in the iron so produced.
6. Give the process for reducing (*a*) Copper Pyrites, through the Sulphate—(*b*) Galena, by the German method—(*c*) Antimony Sulphide.
7. Give Pattinson's process of reducing Argentiferous Galena.
8. Describe (*a*) Quartz, and its common varieties—(*b*) Gypsum.
9. State the practical uses of (*a*) Iron Pyrites—(*b*) Malachite—(*c*) Corundum—(*d*) Talc—(*e*) Graphite.



FOURTH YEAR.

GEOLOGY.

EXAMINER—PROFESSOR DUPUIS, M.A., F.B.S. EDIN.

1. Contrast the theories accounting for the present Constitution of Nature, and state which is held in Geology.
2. Define (a) *Crust of the Globe*—(b) *Rock*—(c) *Stratum*—(d) *Strike*—(e) *Dyke*—(f) *Fault*—(g) *Conformable*—(h) *Breccia*.
3. (a) State and prove the origin of *Eruptive* rocks,—(b) Classify them.
4. How were *Stratified* rocks (a) formed—(b) Consolidated?—(c) What changes did they afterwards undergo? Prove your statements.
5. (a) What is *Palæontology*?—(b) What does it teach us in regard to the history of life,—(c) in regard to the age of the earth?
6. Characterize (a) the *Devonian*—(b) the *Triassic*—(c) the *Cretaceous*.
7. Divide the *Tertiary*, and explain your division.
8. Examine (a) the cause of the *Drift*,—(b) its consequences.

REPORT OF THE TRUSTEES OF QUEEN'S COLLEGE.

To the Reverend the Synod of the Presbyterian Church of Canada in connection with the Church of Scotland.

Copies of the Calendar for next session are herewith presented for distribution among the members of Synod. Besides the information usually given as to the several Faculties and Departments, and the educational management and work of the College in general, a complete roll of graduates from the first year in which degrees were conferred, namely 1845, down to the present time, forms part of the contents. No similar list has been published since 1865.

Last year the Trustees had the satisfaction of reporting an increase from 39 to 50 in the number of registered students. It is exceedingly gratifying to them to have to intimate a further increase this year. In the session just closed there were not fewer than 22 intrants, and the total number enrolled in the Faculties of Arts and Theology is 60—9 in the former and 21 in the latter. Just once in the history of the College has this number been exceeded, namely in session 1858-9, when the number of intrants was 27 and the total number of students 64. Of those enrolled 22, including 2 who belong to the Canada Presbyterian Church, have declared their intention of studying for the Ministry. According to present prospects there will be a still larger attendance next session. The winter's work has been productive of very satisfactory results. The marking attained by leading students in the several years of the curriculum, at the University Examinations recently held, is unusually high.

The Colonial Committee of the Church of Scotland, ever solicitous for the prosperity of the College and ever persevering in their efforts to promote the welfare of the Church, finding themselves unable to obtain a sufficient number of suitable missionaries being licentiates or ordained men, to supply the demands made upon them, have adopted a new measure, with an earnest hope and a fair prospect of being successful, in the better attainment of their object. To promising youths, desirous of entering the Ministry—possessed of a good general education—unable, it may be, of themselves to prosecute their studies in Scotland—willing at the same time, perhaps preferring, to make the Colonial field the sphere of their future labours—the Committee offer inducements to come to this country and receive a Collegiate education here, with the view of becoming qualified in due course to take full rank as Ministers. While it is thought that this measure will not fail for want of applicants anxious to take advantage of it, it is believed that their training “amid the very scenes of their future labours,” will be of special utility in fitting them for the service which is awaiting

ERRATA.—In line 6 of 2nd paragraph—

For 9 students in Arts read 51.

“ 21 “ Theology read 9.

them. There is obviously very much in favour of such a measure and the instalment of progress already made, in the endeavour to give effect to it, is a good assurance of ultimate success. Last summer five applicants, selected with great care and after much enquiry, were sent to Kingston. Two of them entered College, and three went to the Collegiate Institute to prepare for entering next session. Of the whole of them the Principal reports in the most encouraging terms. From the character they have established for themselves and the progress they have made in their studies, it appears that this new and interesting project has, in its initiation, been singularly favoured. The Trustees solicit the Synod's favourable consideration of a scheme which is so certain to increase the usefulness of the College and the strength and stability of the Church.

Two extra courses of lectures were given to the students in attendance at the Divinity Hall—one on "Science and Revelation" by the Rev. George Bell, LL.D., the other on Pastoral Theology by the Rev. John Jenkins, D.D. Whether as regards the practical importance of the subjects or the able manner in which they were discussed, these lectures cannot fail to be of the greatest use. They were highly appreciated by the students. The necessary expense was defrayed by private subscription, without charge to the College funds, and the Board tenders its thanks to the subscribers for the interest they have taken in the matter. A permanent endowment of some lectureships is much to be desired, and perhaps the success which has attended the arrangement for the past session may bring about the attainment of so laudable an object. In the meantime the Trustees will be glad to have it in their power to provide one or two courses of lectures for next session.

Several graduates have renewed their good offices in furnishing class prizes. A number of gentlemen have become responsible for valuable University prizes to be awarded chiefly for the best essays on prescribed subjects, as announced in the Calendar. The essays are to be given in sufficiently early to prevent the writing of them from interfering with the ordinary work of the classes. The donors of these prizes are much to be commended for their liberality and the interest in the prosperity of the College which is thereby indicated. It is hoped that their offers will produce all the advantages of a satisfactory competition. The *Alma Mater* Society has added to its many important services the foundation of a University prize for annual competition, open to members of the graduating class, and to be awarded for the best essay on some subject connected with oratory.

Additions to the library during the year consist of 219 volumes, the greater part of which are valuable modern works, and a large number of pamphlets chiefly on scientific subjects. Donations to the museum have not not been numerous. Among the miscellaneous contributions are specimens of wearing apparel and sundry other articles used by the Hare Indians of the Upper Mackenzie River. These were presented by the Hon. R. Hamilton of the Hudson Bay Company.

The Treasurer's financial statements for the year ending 10th inst., duly audited, are herewith submitted. The Auditors report in the most satisfactory terms as to the manner in which the Treasurer's duties are performed and his books kept. The sum of the charge, as appears from statement No. 1, is \$12722 74; the expense of management, in addition to salaries, being only \$942 74. Among the receipts for revenue is \$140 from John Watkins, Esq., Kingston, who for many years has been a liberal friend to the College, also a supplementary

grant of £200 stg. (\$973 33) from the Colonial Committee of the Church of Scotland. These contributions, with one or two other amounts not belonging to permanent income, have produced an *apparent* surplus of \$909 89 over expenditure.

As to the Endowment Fund, statement No. 5 shows \$2164 90 to have been received during the year, and the total amount collected to be \$102574 36. This includes \$6669 84 received for revenue and used to defray current expenses, and \$839 65 disbursed on account of working the scheme. The whole sum realized for capital is therefore \$94924 87, which is subject, as noticed in last year's report, to a debt of \$7807 90 incurred in meeting deficits in revenue for the years 1869-71. The detailed list of investments, &c., given in the statement, accounts for the whole capital and includes, it will be seen, a loan of \$1635 36 to the general fund. Subscriptions amounting to upwards of \$7000 remain unpaid, although nearly all of them were due more than two years ago, and by their non-payment the College is subjected to an annual loss of \$490. Subscribers in default had, and no doubt have, good intentions with regard to their voluntarily assumed obligations, but these do not satisfy the expectations which by the act of subscription were created. They are earnestly entreated to consider the urgent importance of increasing the permanent revenue of the College and the effect of delaying payment upon the worth of their subscriptions.

All which is respectfully submitted in the name and by the appointment of the Board of Trustees.

JOHN HAMILTON,

Chairman.

Queen's College, 30th April, 1874.

No. 1—STATEMENT OF ORDINARY REVENUE AND EXPENDITURE OF QUEEN'S COLLEGE AT KINGSTON, FOR THE YEAR ENDING 10TH APRIL, 1874.

REVENUE.	EXPENDITURE.
	<i>Salaries.</i>
Grant from Colonial Committee of Church of Scotland.....\$1460 00	The Principal...\$2200 00
Temporalities' Board.... 2000 00	Prof. Williamson 1600 00
Dividends on Bank Stock. 2912 00	" Mowat.... 1500 00
Kingston Observatory... 500 00	" Mackerras. 1400 00
Fees—Class & Graduation 187 50	" Dupuis.... 1400 00
Interest on Mortgages, Government Securities, Debentures and Bank Deposits..... 5459 80	" Ferguson.. 1400 00
Donations, viz.:	" Watson.... 1400 00
Colonial Committee of the Church of Scotland, £200 Stg....\$973 33	Registrar & Sec'y to Senate.... 50 00
Canada—John Watkins, Esq.. 140 00	Sec'y & Treasurer 400 00
———— 1113 33	Librarian..... 80 00
	Janitor..... 350 00
	———— 11780 00
	Insurance 145 00
	Repairs..... 74 31
	Taxes on City Lots..... 25 60
	Prize Books. ... 55 05
	Travelling exp's. 164 90
	Advertising ... 43 51
	Printing and Stationery..... 114 12
	Rent — Janitor's House..... 60 00
	Tinsmith work.. 12 95
	Trees for College Grounds..... 12 50
	Fuel 193 50
	Cleaning..... 5 80
	Postages, Telegrams and sundry small disbursements.... 20 49
	Water Rent..... 15 01
	———— 942 74
	Balance.... 909 89
	———— 909 89
\$13632 63	\$13632 63

Queen's College, Kingston, 25th April, 1874.

W. IRELAND, *Secretary-Treasurer.*

Certified as correct, as per separate report.

JOHN KERR, }
JOHN CREIGHTON, } *Auditors.*

Kingston, 25th April, 1874.

It is to be remembered that while there is an apparent surplus of \$909 89 the General Fund is in debt \$7807 90.

No. 2—STATEMENT OF RECEIPTS AND DISBURSEMENTS ON
ACCOUNT OF QUEEN'S COLLEGE AT KINGSTON, FOR
THE YEAR ENDING 10TH APRIL, 1874.

RECEIPTS.

Balances—Endowment Funds in Merchants' Bank	
10th April, 1873, per statement.....	\$ 746 67
General Funds in do. "	2339 74
	<u>\$ 3086 41</u>
Grant from Colonial Committee, Church of Scotland	1460 00
Temporalities' Board.....	2000 00
Dividends on Bank Stock, viz.:	
12 months on 260 shares Merchants'	
Bank Stock, \$26000 at 8 per cent..	\$2080 00
12 months on 7 instalments of 10 per	
cent on 130 shares new stock	\$9100 728 00
6 months on 2 instalments of 10 per	
cent on 130 shares new stock to 1st	
January, 1874, \$2600 at 4 per cent	104 00
	<u>2912 00</u>
Interest, viz.:	
On Mortgages.....	\$1757 37
On Bank Deposits.....	285 91
On Dominion Stock.....	594 00
On Debentures.....	1650 00
On City of Montreal Stock.....	637 00
From Professors, <i>et al.</i>	535 52
	<u>\$5459 80</u>
Less unpaid.....	358 00
	<u>5101 80</u>
Fees—Registration, Class and Graduation.....	528 50
Kingston Observatory.....	500 00
Donations—	
From Colonial Committee of the Church of	
Scotland, £200 stg.....	\$973 33
From Canada, John Watkins, Esq ...	140 00
	<u>1113 33</u>
Scholarships and Prize Essays, as per state-	
ment No. 4.....	1404 03
Mortgages—John Morton, balance ...	\$400 00
J. McMahon on acct	100 00
Alex. McIsaacs on acct.....	100 00
	<u>600 00</u>
Toronto P. B. & S. Society.....	5020 69
Endowment Fund Subscriptions.....	2164 90
Interest, arrears—J. R. Trumpour.....	160 00
Bills Receivable—Note C. Rogers, paid.....	100 00
Mortgages—John R. Trumpour, foreclosed.....	4000 00
F. McLennan, Dundee, over-remitted.....	60
	<u>27065 85</u>
	<u>\$30152 26</u>

DISBURSEMENTS.

Salaries as per Statement No. 1.....	\$11780 00	
Disbursements as per Statement No. 1.....	942 74	
		\$12722 74
Fees—Registration, paid Treasurer of Library...	244 00	
Apparatus, paid Professor of Natural Phil- osophy.....	51 00	
Apparatus, paid Professor of Chemistry...	46 00	
		341 00
Student of Divinity—Returned on Class Fees....		5 00
Scholarships per Statement No. 4.....		1535 80
Endowment Fund—Bank agency.....	1 25	
Travelling expenses.....	11 35	
Transferred to Revenue.....	140 00	
Invested in Mortgage—		
W. Ross	\$ 350 00	
Hermon Fairfield..	4000 00	
Martin Osterhout..	4000 00	
		8350 00
Additional on College Prem- ises	178 50	
2 instalments of 10 per cent on 130 shares of Merchants' Bank Stock....	2600 00	
		11281 10
Clock—paid for a.....		10 00
Campbell & Macdonnell for investment.....		2000 00
Merchants' Bank, on deposit.....	1187 80	
Merchants' Bank, End. Fund acct. on deposit....	858 82	
Cash.....	210 00	
		2256 62
		<u>\$30152 26</u>

Queen's College, Kingston, 25th April, 1874.

W. IRELAND,

Secretary-Treasurer.

Certified as correct, as per separate report.

JOHN KERR, }
JOHN CREIGHTON, } *Auditors.*

Kingston, 25th April, 1874.

No. 3—BALANCE SHEET, SHOWING THE ASSETS AND LIABILITIES OF QUEEN'S COLLEGE AT KINGSTON, ON 10TH APRIL, 1874.

DR.

Royal Charter, cost of.....	\$ 3107 37
Class apparatus	3633 92
Library—Expenditure on.....	3399 68
Furniture account.....	1439 09
College Premises.....	41919 11

Bank Stock—

160 shares Merchants' Bank Stock at par,	\$16000 00
100 “ “ at 7 per cent prem.	10700 00
130 “ “ New Stock	
at 10 per cent prem. \$14300	
Less 1 instalment of 10 per cent	
not yet due.....	1300
	————— 13000 00
	————— 39700 00

Dominion Stock—

Leitch Memo. Funds.....	\$2400 00
Michie Bequest	2000 00
College Funds.....	7900 00
Prince of Wales Scholarship.....	400 00
Mowat Scholarship....	200 00
	————— 12900 00

Montreal Property Stock.....	10010 00
------------------------------	----------

Debentures, viz :—

County of Frontenac.....	\$3000 00
Township of Thorah... ..	4000 00
Township of Caledon	3500 00
Township of Mono	3000 00
Township of Brock.....	2500 00
Township of Eldon.....	2500 00
Township of Bexley.....	3000 00
Township of Sommerville.....	3000 00
County of Drummond.....	3000 00
	————— 27500 00

Bills Receivable.....	500 00
-----------------------	--------

Lands—

100 acres W $\frac{1}{2}$ 19, 2nd Con. Marmora.....	\$300 00
100 acres E. $\frac{1}{2}$ 21, 11th Con. Belmont....	300 00
	————— 600 00

Carried forward..... \$144709 17

Brought forward.....	\$144709	17
Campbell & Macdonnell ...		2000 00
Mortgages on Real Estate, viz. :—		
A. J. Macdonnell.....	\$4586	55
Donald McMillan.....	150	00
John McMahon ..	100	00
Woods, <i>et al</i> , Trustees.....	675	00
Small & Livingston.....	1900	00
Alexander McIsaacs.....	75	00
Archibald Ferguson.....	6000	00
Thomas Raworth, Mowat Scholarship ...	450	00
Jeremiah Foley.....	1300	00
Alexander Smyth.....	600	00
J. Jardine, Prince of Wales Scholarship..	300	00
Geo. Raworth.....	1200	00
Absalom Greeley.....	3000	00
John L. Silver.....	400	00
William Ross... ..	350	00
Hermon Fairfield.....	4000	00
Martin Osterhout.....	4000	00
		<hr/>
		29086 55
Archibald Livingston.....		332 50
Toronto Ladies Scholarship, 3 shares Bk. stock..	\$300	00
Kingston “ “ 3 “ “ “	300	00
		<hr/>
		600 00
County of Drummond.....		180 00
George Raworth.....		45 00
Merchants' Bank Endowment Fund Account.....		858 82
Merchants' Bank General Funds.....		1187 80
Cash.....		210 00
		<hr/>
		<u>\$179209 84</u>

Cr.

Endowment New Chair in Theology.....	\$	1163	22
Michie Bequest.....		2000	00
Rev. Alexander Lewis.....		400	00
Henry Glass Memorial Scholarship.....		500	00
Funds for investment.....		3522	96
Bursary Endowment.....		2309	75
Leitch Memorial Funds.....		2462	03
Students in Divinity.....		150	00
F. McLennan.....		60	
Scholarships.....		1582	46
Queen's College Endowment Funds.....		94924	87
Profit & Loss.....		70193	95
		<hr/>	
		<u>\$179209 84</u>	

Queen's College, Kingston, 25th April, 1874.

W. IRELAND,
Secretary-Treasurer.

Certified as correct, as per separate Report.

JOHN KERR, }
JOHN CREIGHTON, } *Auditors.*

Kingston, 25th April, 1874.

No. 4—STATEMENT OF RECEIPTS AND DISBURSEMENTS ON
ACCOUNT OF SCHOLARSHIPS AND PRIZE ESSAYS FOR
THE YEAR ENDING 10TH APRIL, 1874.

RECEIPTS.

Balance on hand 10th April, 1873, as per acct....	\$1714 23
Prize Essays.....	\$ 50 00
Cataraqui Scholarship.....	50 00
Prince of Wales do.	48 00
Leitch Memorial do. No. 1.....	57 60
Russell do.	50 00
Campbell do.	80 00
St. And'ws, Scotland do.	36 50
Kingston Ladies' do.	24 00
Toronto Ladies' do.	24 00
Aberdeen University do.	48 45
Supplementary do.	50 00
Leitch Memorial do. No. 2.....	86 40
Mowat do.	45 75
Watkins do.	80 00
St. Paul's do.	60 00
Hardy do.	50 00
Synod do. No. 1.....	80 00
Synod do. No. 2.....	160 00
Colonial Committee Grant for Scholarships.....	243 33
Synod Scholarship No. 3.....	80 00
	<hr/> 1404 03
	<hr/> \$3118 26
	<hr/> <hr/>

DISBURSEMENTS.

Prize Essays—Paid Principal for Prizes.....	\$ 46 80	
Colonial Committee Scholarship No. 2 J. Cormack..	50 00	
Cataraqui do. R. W. Shannon..	50 00	
Colonial Committee do. No. 4 J. J. Cameron....	50 00	
Colonial Committee do. No. 5 R. J. Craig.....	60 00	
Colonial Committee do. No. 3 A. H. Cameron...	55 00	
Prince of Wales do. For Prize..	59 50	
Allan do. Jas. Cumberland.	50 00	
Leitch Memorial do. No. 1 W. J. Irvine.....	57 00	
Russell do. D. McIntyre.....	50 00	
Campbell do. L. Shannon.....	80 00	
St. Andrew's, Scotland do. C. McKillop.....	50 00	
Kingston Ladies' do. on ac't A. McMurchy....	17 50	
Hy. Glass Memorial do. J. B. McLaren...	35 00	
Aberdeen University do. Hugh Cameron..	50 00	
Lewis Prize R. J. Craig.....	25 00	
Dominion Scholarship W. A. Lang.....	60 00	
Supplementary do. P. O'Brian... ..	50 00	
Leitch Memorial do. No. 2 M. McGillivray..	80 00	
Leitch Memorial do. No. 2 add'l J. L. Stuart.	80 00	
Mowat do. D. P. Clapp.....	50 00	
Watkins do. J. R. Lavell.....	80 00	
St. Paul's do. Alex. McKillop..	60 00	
Hardy do. Jno. Ferguson...	50 00	
Synod do. No. 1 J. G. Stuart....	80 00	
Synod do. No. 2 T. D. Cumberland	80 00	
Synod do. No. 3 J. J. Craig....	80 00	
	<hr/>	1535 80
Balance.....		1582 46
		<hr/>
		\$3118 26
		<hr/>

Queen's College, Kingston, 25th April, 1874.

W. IRELAND,

Secretary-Treasurer.

Certified as correct, as per separate Report.

JOHN KERR, }
JOHN CREIGHTON. } *Auditors.*

Kingston, 25th April, 1874.

No. 5—STATEMENT OF QUEEN'S COLLEGE ENDOWMENT
FUND ACCOUNT FOR THE YEAR ENDING 10TH APRIL,
1874.

RECEIPTS.

Amount received to 10th April, 1869.....	\$21255	83
From April, 1869, to 10th April, 1870..	33166	73
From April, 1870, to 10th April, 1871..	22786	66
From April, 1871, to 10th April, 1872..	14819	90
From April, 1872, to 10th April, 1873..	8380	34
	<hr/>	
Total received to 10th April, 1873.....	\$100409	46
Deduct expenses to 10th April, 1873, as		
per statements.....	\$ 827	05
Transfers to Revenue to 10th April, 1873.	6669	84
	<hr/>	
	7496	89
	<hr/>	
	\$92912	57
Received from 10th April, 1873, to 10th April, 1874.....	2164	90
	<hr/>	
	\$95077	47
Balance.....	\$94924	87

DISBURSEMENTS.

From 10th April, 1873, to 10th April, 1874.

Bank Agency.....	\$ 1	25
Travelling expenses.....	11	35
Transferred to Revenue Account for donation.....	140	00
	<hr/>	
	152	60
Balance.....	94924	87
	<hr/>	
	\$95077	47

Accounted for as follows—

City of Montreal Stock, 91 shares at 10 per ct. prem.	\$10010 00	
County of Frontenac Debentures, \$3000 at 95....	2850 00	
Township of Thorah " 2000 " 91½....	1835 00	
" " " 2000 " 92....	1840 00	
" Caledon " 3500 " 95....	3325 00	
" Mono " 3000 " 95....	2850 00	
" Brock " 2500 " 94....	2350 00	
" Eldon " 2500 " 95½....	2387 50	
" Bexley " 3000 " 96½....	2895 00	
" Sommerville " 3000 " 96½....	2895 00	
County of Drummond " 3000 " 95....	2850 00	
53 Shares Merchants' Bank Stock at par.....	5300 00	
100 " " " " at 7 per ct. prem	10700 00	
130 " " " " " 10 " \$14300		
Less 1 instalment unpaid.....	1300	
		13000 00
Mortgages—A. Ferguson, at 7 per cent.....	6000 00	
A. McIsaacs, at 8 per cent.....	75 00	
J. Foley, at 7½ per cent.....	1300 00	
A. Smyth, at 7 per cent.....	600 00	
Geo. Raworth, at 7½ per cent.	1200 00	
Absalom Greeley, at 8 per cent.....	3000 00	
J. L. Silver, at 8 per cent.....	400 00	
Wm. Ross, at 7 per cent.....	350 00	
Hermon Fairfield, at 7½ per cent.....	4000 00	
Martin Osterhout, at 7 per cent.....	4000 00	
Bills Receivable—Robert Hay.....	500 00	
Invested in College Buildings....	5925 85	
		<hr/> \$92438 35
Lent College... ..		1635 36
In Merchants' Bank....	\$858 82	
Less to be transferred to General Funds... ..	7 66	
		<hr/> 851 16
		<hr/> <u>\$94924 87</u>

Queen's College, Kingston, 25th April, 1874.

W. IRELAND,

Secretary-Treasurer.

Certified as correct, as per separate report.

JOHN KERR, }
JOHN CREIGHTON, } *Auditors.*

Kingston, 25th April, 1874.

THE
Royal College of Physicians & Surgeons

KINGSTON, ONTARIO,

IN AFFILIATION WITH

QUEEN'S UNIVERSITY,
CANADA.

TWENTY-FIRST SESSION, 1874-75.

KINGSTON :
PRINTED AT THE DAILY BRITISH WHIG OFFICE, BAGOT STREET.
1874.

Teaching Staff.

JOHN R. DICKSON, M.D., M.R.C.P.L., M.R.C.S. & F.R.C.S., Edin,
PRESIDENT, Professor of Clinical Surgery.

FIFE FOWLER, M.D., L.R.C.S., Edin., REGISTRAR.
Professor of Materia Medica.

HORATIO YATES, M.D.,
Professor of the Principles and Practice of Medicine, and Lecturer on
Clinical Medicine.

MICHAEL LAVELL, M.D.,
Professor of Obstetrics and Diseases of Women and Children.

MICHAEL SULLIVAN, M.D.,
Professor of Surgery and Surgical Anatomy.

OCTAVIUS YATES, M.D.,
Professor of the Institutes of Medicine and Sanitary Science.

JAMES NEISH, M.D.,
Professor of Botany.

THOMAS R. DUPUIS, M.D.,
Professor of Descriptive and Regional Anatomy.

NATHAN F. DUPUIS, M.A., F.B.S., Edin.
(Professor of Chemistry and Natural History, Queen's University,)
Professor of Chemistry and Practical Chemistry.

ALFRED S. OLIVER, M.D.,
Professor of Medical Jurisprudence.

HERBERT J. SAUNDERS, M.D., M.R.C.S.E.,
Demonstrator of Anatomy.

Annual Announcement.

1874 & 1875.

The School of Medicine at Kingston being incorporated with independent powers and privileges under the designation of the 'Royal College of Physicians and Surgeons, Kingston,' will commence its twenty-first session in the College Building, Princess Street, on the first Wednesday in October, 1874.

The College is affiliated to Queen's University, wherein the Degree of M.D. may be obtained by its Students.

Certificates of attendance at this College are recognized by the Royal Colleges of Surgeons of London and Edinburgh, and either the Degree of M.D. or the License of the College entitles the holder thereof to all the privileges in Great Britain that are conferred upon the Graduates and Students of any other Colonial College.

The new premises of the College are commodious and convenient. Unequalled facilities are presented for the study of Practical Anatomy, and great advantages for Clinical Instruction are afforded at the General Hospital and Hotel Dieu.

As a general rule there are examinations once a week in all the classes.

The fees for the different Classes are payable at the commencement of the Session. A Student who has attended two courses in any Class in the College except the Anatomical Demonstrations, is entitled to free attendance in such Class at any subsequent date.

Course of Instruction and Order of Classes.

PRESIDENT; JOHN R. DICKSON, M.D., M.R.C.P., Lon., M.R.C.S., & F.R.C.S.
Edin. (Medical Superintendent of Rockwood Asylum.)
REGISTRAR: FIFE FOWLER, M.D., L.R.C.S., Edin.

1. *Anatomy.*

THOMAS R. DUPUIS, M.D., PROFESSOR.

Lectures daily from 9 to 10 a. m.

Class Book—Gray's Anatomy.

Fee for the Course (six months), \$12.

Lectures will be illustrated by plates, preparations and demonstrations on the dead body.

11. *Institutes of Medicine.*

OCTAVIUS YATES, (Physician to the General Hospital) PROFESSOR.

Lectures daily from 10 to 11.

BOOKS OF REFERENCE—Dalton's Physiology, and Bennett's or Aitken's Pathology.

Fee for the Course (six months), \$12.

The Lectures of this Course, which embrace Histology, Physiology, General Pathology and Sanitary Science will be illustrated by vivisections, demonstrations with the microscope, also plates, drawings, and specimens from the Museum.

111. *Materia Medica, Therapeutics and Pharmacy.*

FIFE FOWLER, M.D., L.R.C.S., Edin. (Physician to General Hospital,) PROFESSOR.

Lectures daily from 11 to 12 a.m.

Class Book—Pereira's *Materia Medica* abridged (Wood's American edition.)

BOOK OF REFERENCE—United States Dispensatory.

The Course will be illustrated by coloured drawings, and specimens of medical plants and specimens of the various drugs, chemicals, etc.

1V. *Botany.*

JAMES NEISH, M.D., PROFESSOR.

Lectures twice a week from 12 to 1.

CLASS BOOK—Gray's *Structural Systematic Botany*.

Fee for the Course, \$6.

V. *Medical Jurisprudence.*

ALFRED S. OLIVER, M.D., (Physician to the General Hospital,) PROFESSOR.

Lectures on Tuesdays and Fridays from 12 to 1.

BOOKS OF REFERENCE—Taylor's *Medical Jurisprudence*.

Fee for the Course, \$6.

VI. Principles and Practice of Surgery.

MICHAEL SULLIVAN, M.D., (Surgeon to the Hotel Dieu), PROFESSOR.

Lectures daily from 2 to 3 p.m.

BOOKS OF REFERENCE—Miller, Pirrie, Gross, Holme's, Smith's or Druitt's Surgery.

Fee for the Course (six months), \$12.

These Lectures embrace the Principles and Practice of Surgery and Surgical Anatomy. The Course will be illustrated by plates and models, as well as pathological specimens. The use of instruments and the application of surgical apparatus and appliances will be taught. The chief operations will be performed on the Cadaver before the Class.

VIII. Theory and Practice of Medicine.

HORATIO YATES, M.D. (Physician to the General Hospital), PROFESSOR.
Lectures daily from 2 to 4 p.m.

CLASS BOOK—Wood's Practice of Medicine. BOOKS OF REFERENCE—Tanner's, Aiken's, and Flint's Practice of Medicine.

Fee for the Course (six months), \$12.

VIII. Obstetrics and Diseases of Women and Children.

MICHAEL LAVELL, M.D. (Member of the Medical Council of Ontario.
(Physician to the Penitentiary and General Hospital), PROFESSOR.

Lectures daily from 4 to 5 p.m.

BOOKS OF REFERENCE—Ramsbotham's, Churchill's, or Tyler Smith's Midwifery, Thomas or Churchill on Diseases of Women, Tanner on Diseases of Children.

Fee for the Course (six months), \$12.

Ample opportunities will be offered to the Students for studying this important branch practically. The Students will be arranged in classes to attend the Obstetric practice of the Hospital, and Clinical Lectures on the diseases of Women and Children will be delivered once a week.

IX. Chemistry and Practical Chemistry.

N. F. DUPUIS, M. A. (Professor of Chemistry, Queen's University,) PROFESSOR.
Lectures Daily from 5 to 6 p. m., illustrated by diagrams, tables, apparatus and preparations. Experiments daily.

BOOKS RECOMMENDED—Fowne's Manual of Chemistry, Roscoe's Elementary Chemistry.

Fee for the Course of Lectures (six months), \$12.

PRACTICAL CHEMISTRY.—A systematic course of testing and separation of bases and acids is gone through, with special processes applicable to Medical Chemistry and Toxicology. Instructions is also given in manipulations, in the use and fitting up of apparatus, and preparation of reagents.

X. Practical Anatomy.

HERBERT J. SAUNDERS, M.D., M.R.C.S., ENG., DEMONSTRATOR.

Daily Demonstrations on the recent subject.

BOOKS FOR USE IN DISSECTING ROOM.—Ellis's Demonstrations or Wilson's Dissector.
Fee for each Course of Anatomical Demonstrations and use of the Dissecting Room (six months), \$6.

By an Act of Parliament the bodies of convicts dying in the Penitentiary are given for Anatomical purposes. This gives to Kingston very great advantages for the study of Practical Anatomy.

The Hospital.

The Kingston General Hospital may be attended by Students during their whole period of study, by one payment of \$5 at the commencement, or \$4 per session.

The Hospital has accommodation for 150 beds. The recently erected "Watkins' Wing" contains a very large and commodious Clinical Lecture Room and Operating Theatre, so arranged as to afford an opportunity to all students of simultaneously witnessing the operations.

The Lectures on Clinical Medicine and Clinical Surgery will be delivered in the new Theatre of the Hospital. Fee entitling to attendance on both Courses, \$6.

Prof. DICKSON, Lecturer on Clinical Surgery.

Prof. H. YATES, Lecturer on Clinical Medicine.

Students will also have the privilege of accompanying the Professor of Surgery in his daily visits to the Hotel Dieu Hospital.

The corporation of the Royal College of Physicians and Surgeons of Kingston possesses advantages and facilities for imparting a thorough and practical training in the different branches of Medical Science unsurpassed by any other College in British North America.

Requisites for Graduation.

The Matriculation and Curriculum of this College are identical with all Colleges in Canada, as prescribed by the Medical Council.

The examination for Matriculation and for the Medical Council will be conducted in the College Buildings by the Rector of the Kingston Grammar School on the first Tuesday and Wednesday of January, April, July, and October of every year, and will embrace the following subjects, viz., **COMPULSORY**—English Language, including Grammar and Composition; Arithmetic, including Vulgar and Decimal Fractions; Algebra, including Simple Equations; Geometry—First two Books of Euclid; Latin Translation and Grammar, First two Books of Caesar's *De Bello Gallico*, and one of the following subjects—Greek, French, German, or Natural Philosophy, including Mechanics, Hydrostatics, Pneumatics.

Graduates and Matriculants in Arts in any University in Her Majesty's dominions are not required to pass the Matriculation Examination. Evidence of having passed a Matriculation Examination in any of the Medical Institutions of Canada prior to July 10, 1869, will be accepted.

The Candidate for the Degree of the University or diploma of the College must have completed a period of four years' study, and have given regular attendance on full courses of instruction in the following branches of Medical Science for at least three Sessions. In the case of Graduates in Arts or those who have spent a year's pupilage in the office of a Medical Practitioner, a period of three years only will be required.

The Candidate must have given regular attendance in Full Courses of Instruction in the following Departments for the period stated;

I Principles and Practice of Surgery.....	Two Full Courses of six months each.
II Theory and Practice of Medicine.....	
III Obstetrics & Diseases of Women & Children..	
IV Institutes of Medicine.....	
V Anatomy.....	
VI Chemistry.....	Two Full Courses of three months each.
VII Materia Medica, Therapeutics and Pharmacy	
VIII Practical Anatomy.....	
IX Clinical Surgery.....	
X Clinical Medicine.....	
XI Medical Jurisprudence.....	One Course of three months.
XII Practical Chemistry.....	
XIII Botany.....	
XIV Hospital.....	

The above course of study may have been pursued either wholly in this College or partly here and partly in some other recognized Medical School. In the latter case at least one full session must have been spent in this College, with attendance on at least four of the above six months courses.

Certificates of attendance on Lectures are received from incorporated Medical Schools in the British dominions, and others recognized by the British Universities and licensing Colleges. Other certificates of attendance on Lectures may be admitted at the discretion of the Faculty.

All Students shall present evidence of their having compounded medicine for a period of twelve months, or for two periods of six months each; in the office of a regularly qualified Medical Practitioner. And they shall present evidence of having attended not fewer than six cases of Midwifery.

Every Candidate must deliver, before the 15th of February of the year in which he proposes to graduate, to the Registrar of the College, a Declaration under his own hand that he is twenty-one years of age, or that he will be so before the day of graduation, accompanied by a certificate of good moral character, a statement of his medical studies, with proper certificates; and a Thesis, composed by himself and in his own hand-writing, to be approved by the Faculty.

Each Candidate is examined both in writing and viva voce—first on Chemistry and Toxicology, Anatomy, Institutes of Medicine, Materia Medica and Therapeutics and Botany—these subjects constituting the PRIMARY EXAMINATION; secondly, no Surgery, Theory and Practice of Medicine, Medical Diagnosis, Medical Jurisprudence, Obstetrics, Clinical Medicine and Clinical Surgery, and Practical Surgery, which are the subjects of the FINAL EXAMINATION.

Students ready to submit to the Primary Examination, that is, to an examination on the first division of these subjects, at the end of their third year, may be admitted to examination at that time. The Final Examination, embracing the second division of subjects, shall not take place until the Candidate has completed his fourth or last Session.

Requisites for the Fellowship.

Before being admitted to the Professional Examination, the Candidate must produce evidence of being a Graduate of Arts, or undergo an examination equivalent thereto, and having been engaged in the practice of the profession at least five years.

The Fee for the Diploma of Licentiate of the College is \$20; for the Degree of M. D. \$30; for the Fellowship of the College, \$50.

Board can be obtained in Kingston at \$2.50 to \$3 a week.

Any additional information may be obtained on application to the President or registrar.

Kingston, July, 1874.

Queen's University, Kingston.

THE COLLEGE SENATE.

- Very Rev. WILLIAM SNODGRASS, D.D.,
Principal and Primarius Professor of Divinity.
- Rev. JOHN B. MOWAT, M.A.,
Professor of Oriental Languages, Biblical Criticism, and Church History.
- Rev. JAMES WILLIAMSON, M.A., LL. D.,
Professor of Mathematics and Natural Philosophy.
- Rev. JOHN H. MACKERRAS, M.A.
Professor of Classical Literature.
- NATHAN F. DUPUIS, M.A., F.B.S., Edin.,
Professor of Chemistry and Natural History.
- Rev. GEORGE D. FERGUSON, B.A.,
Professor of History and English Literature.
- JOHN WATSON, M.A.,
Professor of Logic, Metaphysics, and Ethics.

Secretary--Prof. Mowat.

Registrar--Professor Mowat.

Examiner in Matriculation in Medicine--Samuel Woods, Esq, M.A.

SESSION 1874-'75.

The Thirty-second Session will begin on the FIRST WEDNESDAY (1st OF OCTOBER NEXT. Matriculation Examinations will commence on the day after.

The calendar for 1873-'74 contains full information on Subjects of Study, Examinations, Graduation, Fees, Scholarships, &c. Copies may be obtained on application to the Registrar;

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